

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Hasil penelitian dapat ditarik kesimpulan bahwa penerapan teknologi dan metode statistik melalui R Programming memberikan kontribusi positif dalam mengidentifikasi bakat olahraga pada tingkat sekolah dasar. Hasil penelitian menunjukkan bahwa dari total 13 anggota Klub PB ASKOB Usia 13-15 siswa yang diteliti, hanya 3 anggota yang menunjukkan keterampilan atau bakat olahraga bulutangkis.

5.2 Saran

Penelitian ini hanya fokus pada identifikasi bakat, untuk penelitian mendatang diharapkan dapat mengembangkan penelitian ini khusus pada aspek antropometri yang berhubungan dengan bakat olahraga bulutangkis.

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a.      Script Analisis      Skors      require(openxlsx)
require(mosaic)
Data = read.xlsx(".....xlsx","-----")
attach(Data)
Data[, "Gender_Umur"] = paste(Data[, "Gender"], Data[, "Umur"], sep = "-")
attach(Data)

Data <- mutate(Data, Kat_TB = derivedFactor(
Normal = (Umur >= 10 & Umur <= 12 & TB >= 145 & Gender == 'Putra') |
(Umur >= 10 & Umur <= 12 & TB >= 147 & Gender == 'Putri') |
(Umur >= 13 & Umur <= 15 & TB >= 163 & Gender == 'Putra') |
(Umur >= 13 & Umur <= 15 & TB >= 156 & Gender == 'Putri'),
.ordered = TRUE, method = "first", default = "Tidak_Normal"))

Data <- mutate(Data, LTBT = derivedFactor(
'5' = (LTBT >= 15 & Gender_Umur == 'Putri-11') | (LTBT >= 16 &
Gender_Umur == 'Putri-12') | (LTBT >= 17 & Gender_Umur == 'Putri-13') | (LTBT
>= 17 & Gender_Umur == 'Putri-14') |
(LTBT >= 18 & Gender_Umur == 'Putri-15') | (LTBT >= 17 &
Gender_Umur == 'Putra-11') | (LTBT
>= 17 & Gender_Umur == 'Putra-12') | (LTBT >= 18 & Gender_Umur == 'Putra-
13') | (LTBT >= 19
& Gender_Umur == 'Putra-14') | (LTBT >= 20 & Gender_Umur == 'Putra-15'), '4'
= (LTBT >=
10 & LTBT <= 14 & Gender_Umur == 'Putri-11') | (LTBT >= 12 & LTBT <= 15 &
Gender_Umur == 'Putri-12') | (LTBT >= 13 & LTBT <= 16 &
Gender_Umur == 'Putri-13') | (LTBT

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>= 13 & LTBT <= 16 & Gender_Umur=='Putri-14')|
(LTBT >= 14 & LTBT <= 17 & Gender_Umur=='Putri-15')|(LTBT >= 12 &
LTBT <= 16 &
Gender_Umur=='Putra-11') |(LTBT >= 14 & LTBT <= 16 &
Gender_Umur=='Putra-12')|(LTBT
>= 15 & LTBT <= 17 & Gender_Umur=='Putra-13')|(LTBT >= 16 & LTBT <=
18 &
Gender_Umur=='Putra-14')|(LTBT >= 17 & LTBT <= 19 &
Gender_Umur=='Putra-15'),'3'
=(LTBT >= 6 & LTBT <= 9 & Gender_Umur=='Putri-11')|(LTBT >= 7 & LTBT
<= 11 &
Gender_Umur=='Putri-12')| (LTBT >= 8 & LTBT <= 12 &
Gender_Umur=='Putri-13')|(LTBT
>= 8 & LTBT <= 12 & Gender_Umur=='Putri-14')|(LTBT >= 9 & LTBT <= 13 &
Gender_Umur=='Putri-15')|(LTBT >= 8 & LTBT <= 11 &
Gender_Umur=='Putra-11') |(LTBT
>= 10 & LTBT <= 13 & Gender_Umur=='Putra-12')|(LTBT >= 11 & LTBT <=
14 &
Gender_Umur=='Putra-13')|(LTBT >= 12 & LTBT <= 15 &
Gender_Umur=='Putra-14')|(LTBT
>= 13 & LTBT <= 16 & Gender_Umur=='Putra-15'),'2' = (LTBT >= 3 & LTBT
<= 5 &
Gender_Umur=='Putri-11')|(LTBT >= 3 & LTBT <= 6 & Gender_Umur=='Putri-
12')|(LTBT >=
4 & LTBT <= 7 & Gender_Umur=='Putri-13')|
(LTBT >= 4 & LTBT <= 7 & Gender_Umur=='Putri-14')|(LTBT >= 5 & LTBT
<= 8 &
Gender_Umur=='Putri-15')|(LTBT >= 4 & LTBT <= 7 & Gender_Umur=='Putra-
11') |
(LTBT >= 6 & LTBT <= 9 & Gender_Umur=='Putra-12')|(LTBT >= 7 & LTBT
<= 10 &
Gender_Umur=='Putra-13')|(LTBT >= 8 & LTBT <= 11 &
Gender_Umur=='Putra-14')|

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Gender_Umur=='Putri-11')|(LTBT <2 & Gender_Umur=='Putri-12')|(LTBT < 3
&
Gender_Umur=='Putri-13')|(LTBT < 3 & Gender_Umur=='Putri-14')|(LTBT <
4 &
Gender_Umur=='Putri-15')|(LTBT < 3 & Gender_Umur=='Putra-11') |(LTBT <
5 &
Gender_Umur=='Putra-12')|(LTBT < 6 & Gender_Umur=='Putra-13')|(LTBT <
7 &
Gender_Umur=='Putra-14')|(LTBT < 8 & Gender_Umur=='Putra-15'),.ordered
= TRUE,
.method = "first",default = "0"))
Data <- mutate(Data, LBB = derivedFactor(
'5' = (LBB >= 5.25 & Gender_Umur=='Putri-11')|
(LBB >= 6.20 & Gender_Umur=='Putri-12')|
(LBB >= 6.45 & Gender_Umur=='Putri-13')|
(LBB >= 6.90 & Gender_Umur=='Putri-14')|
(LBB >= 7.1 & Gender_Umur=='Putri-15')|
(LBB >= 5.9 & Gender_Umur=='Putra-11') |
(LBB >= 6.8 & Gender_Umur=='Putra-12')|
(LBB >= 8.05 & Gender_Umur=='Putra-13')|
(LBB >= 8.75 & Gender_Umur=='Putra-14')|
(LBB >= 9.85 & Gender_Umur=='Putra-15'),
'4' = (LBB >= 4.4 & LBB <= 5.24 & Gender_Umur=='Putri-11')|
(LBB >= 5.4 & LBB <= 6.19 & Gender_Umur=='Putri-12')|
(LBB >= 5.7 & LBB <= 6.44 & Gender_Umur=='Putri-13')|
(LBB >= 6 & LBB <= 6.89 & Gender_Umur=='Putri-14')|
(LBB >= 6.25 & LBB <= 7.09 & Gender_Umur=='Putri-15')|
(LBB >= 5.1 & LBB <= 5.89 & Gender_Umur=='Putra-11') |
(LBB >= 6 & LBB <= 6.79 & Gender_Umur=='Putra-12')|
(LBB >= 6.85 & LBB <= 8.04 & Gender_Umur=='Putra-13')|
(LBB >= 7.5 & LBB <= 8.74 & Gender_Umur=='Putra-14')|
(LBB >= 8.65 & LBB <= 9.84 & Gender_Umur=='Putra-15'),

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(LBB >= 4.65 & LBB <= 5.39 & Gender_Umur=='Putri-12')|
(LBB >= 4.90 & LBB <= 5.69 & Gender_Umur=='Putri-13')|
(LBB >= 5.10 & LBB <= 5.99 & Gender_Umur=='Putri-14')|
(LBB >= 5.4 & LBB <= 6.24 & Gender_Umur=='Putri-15')|
(LBB >= 4.35 & LBB <= 5.09 & Gender_Umur=='Putra-11') |
(LBB >= 5.15 & LBB <= 5.99 & Gender_Umur=='Putra-12')|
(LBB >= 5.70 & LBB <= 6.84 & Gender_Umur=='Putra-13')|
(LBB >= 6.25 & LBB <= 7.49 & Gender_Umur=='Putra-14')|
(LBB >= 7.45 & LBB <= 8.64 & Gender_Umur=='Putra-15'),
'2' = (LBB >= 2.70 & LBB <= 3.49 & Gender_Umur=='Putri-11')|
(LBB >= 3.90 & LBB <= 4.64 & Gender_Umur=='Putri-12')|
(LBB >= 4.1 & LBB <= 4.89 & Gender_Umur=='Putri-13')|
(LBB >= 4.20 & LBB <= 5.09 & Gender_Umur=='Putri-14')|
(LBB >= 4.35 & LBB <= 5.39 & Gender_Umur=='Putri-15')|
(LBB >= 3.35 & LBB <= 4.34 & Gender_Umur=='Putra-11') |
(LBB >= 4.30 & LBB <= 5.14 & Gender_Umur=='Putra-12')|
(LBB >= 4.5 & LBB <= 5.69 & Gender_Umur=='Putra-13')|
(LBB >= 5.00 & LBB <= 6.24 & Gender_Umur=='Putra-14')|
(LBB >= 6.25 & LBB <= 7.44 & Gender_Umur=='Putra-15'),
'1' = (LBB <= 2.69 & Gender_Umur=='Putri-11')|
(LBB <= 3.89 & Gender_Umur=='Putri-12')|
(LBB <= 4.09 & Gender_Umur=='Putri-13')|
(LBB <= 4.19 & Gender_Umur=='Putri-14')|
(LBB <= 4.34 & Gender_Umur=='Putri-15')|
(LBB <= 3.34 & Gender_Umur=='Putra-11')|
(LBB <= 4.29 & Gender_Umur=='Putra-12')|
(LBB <= 4.49 & Gender_Umur=='Putra-13')|
(LBB <= 5.49 & Gender_Umur=='Putra-14')|
(LBB <= 6.24 & Gender_Umur=='Putra-15'),
.ordered = TRUE,
.method = "first",

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default = "0"))
#===== LT
Data <- mutate(Data, LT = derivedFactor(
'5' = (LT >= 35 & Gender_Umur=='Putri-11')|
      (LT >= 36 & Gender_Umur=='Putri-12')|
      (LT >= 38 & Gender_Umur=='Putri-13')|
      (LT >= 39 & Gender_Umur=='Putri-14')|
      (LT >= 41 & Gender_Umur=='Putri-15')|
      (LT >= 39 & Gender_Umur=='Putra-11') |
      (LT >= 42 & Gender_Umur=='Putra-12')|
      (LT >= 44 & Gender_Umur=='Putra-13')|
      (LT >= 47 & Gender_Umur=='Putra-14')|
      (LT >= 57 & Gender_Umur=='Putra-15'),
'4' = (LT >= 29 & LT <= 34 & Gender_Umur=='Putri-11')|
      (LT >= 30 & LT <= 35 & Gender_Umur=='Putri-12')|
      (LT >= 32 & LT <= 37 & Gender_Umur=='Putri-13')|
      (LT >= 33 & LT <= 38 & Gender_Umur=='Putri-14')|
      (LT >= 34 & LT <= 40 & Gender_Umur=='Putri-15')|
      (LT >= 33 & LT <= 38 & Gender_Umur=='Putra-11') |
      (LT >= 35 & LT <= 41 & Gender_Umur=='Putra-12')|
      (LT >= 37 & LT <= 43 & Gender_Umur=='Putra-13')|
      (LT >= 40 & LT <= 46 & Gender_Umur=='Putra-14')|
      (LT >= 48 & LT <= 56 & Gender_Umur=='Putra-15'),
'3' = (LT >= 23 & LT <= 28 & Gender_Umur=='Putri-11')|
      (LT >= 21 & LT <= 29 & Gender_Umur=='Putri-12')|
      (LT >= 26 & LT <= 31 & Gender_Umur=='Putri-13')|
      (LT >= 27 & LT <= 32 & Gender_Umur=='Putri-14')|
      (LT >= 28 & LT <= 33 & Gender_Umur=='Putri-15')|
      (LT >= 26 & LT <= 32 & Gender_Umur=='Putra-11') |
      (LT >= 28 & LT <= 34 & Gender_Umur=='Putra-12')|
      (LT >= 29 & LT <= 37 & Gender_Umur=='Putra-13')|

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(LT >= 32 & LT <= 39 & Gender_Umur=='Putra-14')|
(LT >= 36 & LT <= 47 & Gender_Umur=='Putra-15'),
'2' = (LT >= 17 & LT <= 22 & Gender_Umur=='Putri-11')|
(LT >= 19 & LT <= 20 & Gender_Umur=='Putri-12')|
(LT >= 21 & LT <= 25 & Gender_Umur=='Putri-13')|
(LT >= 22 & LT <= 26 & Gender_Umur=='Putri-14')|
(LT >= 23 & LT <= 27 & Gender_Umur=='Putri-15')|
(LT >= 19 & LT <= 25 & Gender_Umur=='Putra-11') |
(LT >= 21 & LT <= 27 & Gender_Umur=='Putra-12')|
(LT >= 22 & LT <= 28 & Gender_Umur=='Putra-13')|
(LT >= 25 & LT <= 31 & Gender_Umur=='Putra-14')|
(LT >= 29 & LT <= 35 & Gender_Umur=='Putra-15'),
'1' = (LT <= 16 & Gender_Umur=='Putri-11')|
(LT <= 18 & Gender_Umur=='Putri-12')|
(LT <= 20 & Gender_Umur=='Putri-13')|
(LT <= 21 & Gender_Umur=='Putri-14')|
(LT <= 22 & Gender_Umur=='Putri-15')|
(LT <= 18 & Gender_Umur=='Putra-11')|
(LT <= 20 & Gender_Umur=='Putra-12')|
(LT <= 21 & Gender_Umur=='Putra-13')|
(LT <= 24 & Gender_Umur=='Putra-14')|
(LT <= 28 & Gender_Umur=='Putra-15'),
.ordered = TRUE,
.method = "first",
.default = "0"))
#===== LK
Data <- mutate(Data, LK = derivedFactor(
'5' = (LK <= 19.75 & Gender_Umur=='Putri-11')|
(LK <= 18.96 & Gender_Umur=='Putri-12')|
(LK <= 18.17 & Gender_Umur=='Putri-13')|
(LK <= 17.38 & Gender_Umur=='Putri-14')|

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(LK <= 16.92 & Gender_Umur=='Putri-15')|
(LK <= 18.02 & Gender_Umur=='Putra-11') |
(LK <= 18.15 & Gender_Umur=='Putra-12')|
(LK <= 16.60 & Gender_Umur=='Putra-13')|
(LK <= 16.42 & Gender_Umur=='Putra-14')|
(LK <= 14.89 & Gender_Umur=='Putra-15'),
'4' = (LK >= 19.76 & LK <= 22.24 & Gender_Umur=='Putri-11')|
(LK >= 18.97 & LK <= 21.1 & Gender_Umur=='Putri-12')|
(LK >= 18.18 & LK <= 20.26 & Gender_Umur=='Putri-13')|
(LK >= 17.39 & LK <= 19.79 & Gender_Umur=='Putri-14')|
(LK >= 16.93 & LK <= 19.47 & Gender_Umur=='Putri-15')|
(LK >= 18.03 & LK <= 20.71 & Gender_Umur=='Putra-11') |
(LK >= 18.16 & LK <= 20.07 & Gender_Umur=='Putra-12')|
(LK >= 16.61 & LK <= 18.72 & Gender_Umur=='Putra-13')|
(LK >= 16.43 & LK <= 18.35 & Gender_Umur=='Putra-14')|
(LK >= 14.90 & LK <= 17.88 & Gender_Umur=='Putra-15'),
'3' = (LK >= 22.25 & LK <= 24.73 & Gender_Umur=='Putri-11')|
(LK >= 21.11 & LK <= 23.24 & Gender_Umur=='Putri-12')|
(LK >= 20.27 & LK <= 22.36 & Gender_Umur=='Putri-13')|
(LK >= 19.80 & LK <= 22.21 & Gender_Umur=='Putri-14')|
(LK >= 19.48 & LK <= 22.03 & Gender_Umur=='Putri-15')|
(LK >= 20.72 & LK <= 23.42 & Gender_Umur=='Putra-11') |
(LK >= 20.08 & LK <= 21.99 & Gender_Umur=='Putra-12')|
(LK >= 18.73 & LK <= 20.84 & Gender_Umur=='Putra-13')|
(LK >= 18.36 & LK <= 20.29 & Gender_Umur=='Putra-14')|
(LK >= 17.89 & LK <= 20.19 & Gender_Umur=='Putra-15'),
'2' = (LK >= 24.74 & LK <= 27.22 & Gender_Umur=='Putri-11')|
(LK >= 23.25 & LK <= 25.37 & Gender_Umur=='Putri-12')|
(LK >= 22.37 & LK <= 24.44 & Gender_Umur=='Putri-13')|
(LK >= 22.22 & LK <= 24.61 & Gender_Umur=='Putri-14')|
(LK >= 22.04 & LK <= 24.57 & Gender_Umur=='Putri-15')|

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(LK >= 23.43 & LK <= 26.13 & Gender_Umur=='Putra-11') |
(LK >= 22 & LK <= 23.91 & Gender_Umur=='Putra-12')|
(LK >= 20.85 & LK <= 22.97 & Gender_Umur=='Putra-13')|
(LK >= 20.30 & LK <= 22.22 & Gender_Umur=='Putra-14')|
(LK >= 20.18 & LK <= 22.12 & Gender_Umur=='Putra-15'),
'1' = (LK >= 27.23 & Gender_Umur=='Putri-11')|
(LK >= 25.38 & Gender_Umur=='Putri-12')|
(LK >= 24.45 & Gender_Umur=='Putri-13')|
(LK >= 24.62 & Gender_Umur=='Putri-14')|
(LK >= 24.58 & Gender_Umur=='Putri-15')|
(LK >= 26.14 & Gender_Umur=='Putra-11')|
(LK >= 23.92 & Gender_Umur=='Putra-12')|
(LK >= 22.98 & Gender_Umur=='Putra-13')|
(LK >= 22.23 & Gender_Umur=='Putra-14')|
(LK >= 22.13 & Gender_Umur=='Putra-15'),
.ordered = TRUE,
.method = "first",
.default = "0"))
#=====
L40M=====
=
Data <- mutate(Data, L40M = derivedFactor(
'5' = (L40M <= 6.81 & Gender_Umur=='Putri-11')|
(L40M <= 6.42 & Gender_Umur=='Putri-12')|
(L40M <= 6.33 & Gender_Umur=='Putri-13')|
(L40M <= 6.04 & Gender_Umur=='Putri-14')|
(L40M <= 5.99 & Gender_Umur=='Putri-15')|
(L40M <= 6.78 & Gender_Umur=='Putra-11') |
(L40M <= 6.05 & Gender_Umur=='Putra-12')|
(L40M <= 5.82 & Gender_Umur=='Putra-13')|
(L40M <= 5.55 & Gender_Umur=='Putra-14')|

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'4' = (L40M >= 6.82 & L40M <= 7.76 & Gender_Umur=='Putri-11')|
(L40M >= 6.43 & L40M <= 7.19 & Gender_Umur=='Putri-12')|
(L40M >= 6.34 & L40M <= 7.07 & Gender_Umur=='Putri-13')|
(L40M >= 6.05 & L40M <= 6.88 & Gender_Umur=='Putri-14')|
(L40M >= 6.00 & L40M <= 6.76 & Gender_Umur=='Putri-15')|
(L40M >= 6.79 & L40M <= 7.59 & Gender_Umur=='Putra-11') |
(L40M >= 6.06 & L40M <= 6.75 & Gender_Umur=='Putra-12')|
(L40M >= 5.83 & L40M <= 6.56 & Gender_Umur=='Putra-13')|
(L40M >= 5.51 & L40M <= 6.21 & Gender_Umur=='Putra-14')|
(L40M >= 5.01 & L40M <= 5.93 & Gender_Umur=='Putra-15'),
'3' = (L40M >= 7.77 & L40M <= 8.71 & Gender_Umur=='Putri-11')|
(L40M >= 7.20 & L40M <= 7.97 & Gender_Umur=='Putri-12')|
(L40M >= 7.08 & L40M <= 7.82 & Gender_Umur=='Putri-13')|
(L40M >= 6.89 & L40M <= 7.42 & Gender_Umur=='Putri-14')|
(L40M >= 6.77 & L40M <= 7.54 & Gender_Umur=='Putri-15')|
(L40M >= 7.60 & L40M <= 8.40 & Gender_Umur=='Putra-11') |
(L40M >= 6.76 & L40M <= 7.45 & Gender_Umur=='Putra-12')|
(L40M >= 6.57 & L40M <= 7.30 & Gender_Umur=='Putra-13')|
(L40M >= 6.22 & L40M <= 6.93 & Gender_Umur=='Putra-14')|
(L40M >= 5.94 & L40M <= 6.77 & Gender_Umur=='Putra-15'),
'2' = (L40M >= 8.72 & L40M <= 9.66 & Gender_Umur=='Putri-11')|
(L40M >= 7.98 & L40M <= 8.73 & Gender_Umur=='Putri-12')|
(L40M >= 7.83 & L40M <= 8.54 & Gender_Umur=='Putri-13')|
(L40M >= 7.43 & L40M <= 8.55 & Gender_Umur=='Putri-14')|
(L40M >= 7.55 & L40M <= 8.30 & Gender_Umur=='Putri-15')|
(L40M >= 8.41 & L40M <= 9.21 & Gender_Umur=='Putra-11') |
(L40M >= 7.46 & L40M <= 8.15 & Gender_Umur=='Putra-12')|
(L40M >= 7.31 & L40M <= 8.04 & Gender_Umur=='Putra-13')|
(L40M >= 6.94 & L40M <= 7.64 & Gender_Umur=='Putra-14')|
(L40M >= 6.78 & L40M <= 7.50 & Gender_Umur=='Putra-15'),
'1' = (L40M >= 9.67 & Gender_Umur=='Putri-11')|

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(L40M >= 8.74 & Gender_Umur=='Putri-12')|
(L40M >= 8.55 & Gender_Umur=='Putri-13')|
(L40M >= 8.56 & Gender_Umur=='Putri-14')|
(L40M >= 8.31 & Gender_Umur=='Putri-15')|
(L40M >= 9.22 & Gender_Umur=='Putra-11')|
(L40M >= 8.16 & Gender_Umur=='Putra-12')|
(L40M >= 8.05 & Gender_Umur=='Putra-13')|
(L40M >= 7.65 & Gender_Umur=='Putra-14')|
(L40M >= 7.51 & Gender_Umur=='Putra-15'),
.ordered = TRUE,
.method = "first",
.default = "0"))
#=====
MFT=====
Data <- mutate(Data, MFT = derivedFactor(
'5' = (MFT >= 7.20 & Gender_Umur=='Putri-11')|
(MFT >= 7.7 & Gender_Umur=='Putri-12')|
(MFT >= 8.10 & Gender_Umur=='Putri-13')|
(MFT >= 8.10 & Gender_Umur=='Putri-14')|
(MFT >= 8.3 & Gender_Umur=='Putri-15')|
(MFT >= 8.8 & Gender_Umur=='Putra-11') |
(MFT >= 9.3 & Gender_Umur=='Putra-12')|
(MFT >= 10.2 & Gender_Umur=='Putra-13')|
(MFT >= 11.4 & Gender_Umur=='Putra-14')|
(MFT >= 11.8 & Gender_Umur=='Putra-15'),
'4' = (MFT >= 5.20 & MFT <= 7.21 & Gender_Umur=='Putri-11')|
(MFT >= 6.00 & MFT <= 7.60 & Gender_Umur=='Putri-12')|
(MFT >= 6.30 & MFT <= 8.0 & Gender_Umur=='Putri-13')|
(MFT >= 6.30 & MFT <= 8.0 & Gender_Umur=='Putri-14')|
(MFT >= 6.30 & MFT <= 8.20 & Gender_Umur=='Putri-15')|
(MFT >= 6.50 & MFT <= 8.7 & Gender_Umur=='Putra-11') |

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(MFT >= 8.0 & MFT <= 9.2 & Gender_Umur=='Putra-12')|
(MFT >= 8.9 & MFT <= 10.1 & Gender_Umur=='Putra-13')|
(MFT >= 9.2 & MFT <= 11.3 & Gender_Umur=='Putra-14')|
(MFT >= 9.5 & MFT <= 11.7 & Gender_Umur=='Putra-15'),
'3' = (MFT >= 3.33 & MFT <= 5.1 & Gender_Umur=='Putri-11')|
(MFT >= 4.2 & MFT <= 5.9 & Gender_Umur=='Putri-12')|
(MFT >= 4.5 & MFT <= 6.20 & Gender_Umur=='Putri-13')|
(MFT >= 4.5 & MFT <= 6.2 & Gender_Umur=='Putri-14')|
(MFT >= 4.5 & MFT <= 6.2 & Gender_Umur=='Putri-15')|
(MFT >= 4.2 & MFT <= 6.4 & Gender_Umur=='Putra-11') |
(MFT >= 5.7 & MFT <= 7.90 & Gender_Umur=='Putra-12')|
(MFT >= 6.6 & MFT <= 8.8 & Gender_Umur=='Putra-13')|
(MFT >= 6.9 & MFT <= 9.1 & Gender_Umur=='Putra-14')|
(MFT >= 7.1 & MFT <= 9.4 & Gender_Umur=='Putra-15'),
'2' = (MFT >= 2.3 & MFT <= 3.2 & Gender_Umur=='Putri-11')|
(MFT >= 2.5 & MFT <= 4.1 & Gender_Umur=='Putri-12')|
(MFT >= 2.7 & MFT <= 4.40 & Gender_Umur=='Putri-13')|
(MFT >= 2.7 & MFT <= 4.4 & Gender_Umur=='Putri-14')|
(MFT >= 2.7 & MFT <= 4.4 & Gender_Umur=='Putri-15')|
(MFT >= 2.8 & MFT <= 4.2 & Gender_Umur=='Putra-11') |
(MFT >= 3.5 & MFT <= 5.6 & Gender_Umur=='Putra-12')|
(MFT >= 4.3 & MFT <= 6.5 & Gender_Umur=='Putra-13')|
(MFT >= 4.7 & MFT <= 6.8 & Gender_Umur=='Putra-14')|
(MFT >= 4.8 & MFT <= 7.0 & Gender_Umur=='Putra-15'),
'1' = (MFT <= 2.30 & Gender_Umur=='Putri-11')|
(MFT <= 2.40 & Gender_Umur=='Putri-12')|
(MFT <= 2.60 & Gender_Umur=='Putri-13')|
(MFT <= 2.6 & Gender_Umur=='Putri-14')|
(MFT <= 2.6 & Gender_Umur=='Putri-15')|
(MFT <= 2.6 & Gender_Umur=='Putra-11')|
(MFT <= 3.4 & Gender_Umur=='Putra-12')|

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(MFT <= 4.2 & Gender_Umur=='Putra-13')|
(MFT <= 4.6 & Gender_Umur=='Putra-14')|
(MFT <= 4.7 & Gender_Umur=='Putra-15'),
.ordered = TRUE,
.method = "first",
.default = "0"))
Data1 = createWorkbook()
addWorksheet(Data1, "Skor_Bakat")
writeData(Data1, "Skor_Bakat", Data, startCol = 1, startRow = 1)
saveWorkbook(Data1, "D:/1. Ilmu_Statistik/5. Statistika
Pendidikan/Adrizar/Skor_Bakat.xlsx", overwrite = TRUE

b.Script Analisis Keberbakatan Olahraga Data2 = read.xlsx("D:/1.
Ilmu_Statistik/5. Statistika Pendidikan/Adrizar/Skor_Bakat.xlsx","Skor_Bakat")
attach(Data2) Data2 = mutate(Data2, Anggar =derivedFactor(Anggar=
LTBT==5 & LT >= 4 & LBB >= 4 & LK >= 4 & L40M >= 4 & MFT >=
4,.ordered = TRUE,.method = "first",.default = " -----")) Data2 = mutate(Data2,
Angkat_Besi=derivedFactor(Angkat_Besi = LTBT >= 3 & LT == 5 & LBB == 5
& LK >= 2 & L40M >= 2 & MFT >= 1 ,.ordered = TRUE, method = "first",
.default = " -----")) Data2 = mutate(Data2, Base_Ball =derivedFactor(Base_Ball
= LTBT == 5 & LT >= 4 & LBB >= 4 & LK >= 4 & L40M >= 4 & MFT >=
4,.ordered = TRUE,.method = "first",.default = " ----- ")) Data2 =
mutate(Data2, Bola_Basket=derivedFactor(Bola_Basket = Kat_TB=='Normal' &
LTBT == 5 & LT == 5 & LBB == 5 & LK >=4 & L40M >= 4 & MFT >=
4,.ordered = TRUE,.method = "first",.default = " ----- ")) Data2 =
mutate(Data2, Bola_Tangan=derivedFactor(Bola_Tangan = LTBT == 5 & LT
>= 4 & LBB >= 4 & LK >= 4 & L40M >= 4 & MFT >= 4,.ordered = TRUE,
.method = "first",.default = " -----")) Data2 = mutate(Data2,
Bolavoli=derivedFactor(Bolavoli= Kat_TB =='Normal' & LTBT == 5 & LT >= 4
& LBB == 5 & LK >= 4 & L40M >= 4 & MFT >= 4,.ordered = TRUE, method
= "first",.default = " -----")) Data2 = mutate(Data2,
Bulutangkis=derivedFactor(Bulutangkis = LTBT == 5 & LT == 5 & LBB == 5 &
LK == 5 & L40M == 5 & MFT == 5,.ordered = TRUE,.method = "first", default
= " ----- ")) Data2 = mutate(Data2, Dayung=derivedFactor(Dayung = LTBT >=

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4,.ordered = TRUE, .method = "first", .default = "----- ") Data2 =
mutate(Data2,Hoki=derivedFactor(Hoki = LTBT == 5 & LT >= 4 & LBB == 5 &
LK == 5 & L40M >= 4 & MFT >= 4,.ordered = TRUE, .method = "first", default
= "----- ")) Data2 = mutate(Data2,Jalan=derivedFactor(Jalan = LTBT >= 1 &
LT >= 3 & LBB >= 1 & LK >= 2 & L40M >= 2 & MFT == 5,.ordered = TRUE,
.method = "first", .default = "-----")) Data2 = mutate(Data2,
Judo=derivedFactor(Judo = LTBT >= 3 & LT >= 4 & LBB == 5 & LK >= 3 &
L40M >= 2 & MFT >= 3,.ordered = TRUE, .method = "first", .default = "-----
")) Data2 = mutate(Data2,Kano=derivedFactor(Kano = LTBT >= 3 & LT >= 3
& LBB == 5 & LK >= 2 & L40M >= 3 & MFT >= 4,.ordered = TRUE, method
= "first", .default = "-----")) Data2 =
mutate(Data2,Karate_Do=derivedFactor(Karate_Do = LTBT >= 4 & LT == 5 &
LBB == 5 & LK == 5 & L40M >= 4 & MFT >= 4,.ordered = TRUE, method =
"first", .default = "-----")) Data2 = mutate(Data2,
Kungfu=derivedFactor(Kungfu = LTBT >= 4 & LT == 5 & LBB == 5 & LK == 5
& L40M >= 4 & MFT >= 4,.ordered = TRUE, .method = "first", .default = "-----
-")) Data2 = mutate(Data2, Lari_cepat=derivedFactor(Lari_cepat = LTBT >= 1
& LT == 5 & LBB >= 3 & LK >= 4 & L40M == 5 & MFT >= 2,.ordered =
TRUE, .method = "first", .default = "----- ")) Data2 = mutate(Data2,
Jari_Jarak_Jauh =derivedFactor(Jari_Jarak_Jauh = LTBT >= 1 & LT >= 3 & LBB
>=1 & LK >= 3 & L40M >= 4 & MFT == 5,.ordered = TRUE, method = "first",
.default = "-----")) Data2 = mutate(Data2,
Lari_Gawang=derivedFactor(Lari_Gawang = LTBT >=3 & LT==5 & LBB >= 1
& LK==5 & L40M == 5 & MFT >= 2,.ordered = TRUE, method = "first",
.default = "-----")) Data2 = mutate(Data2,
Lompat_jauh=derivedFactor(Lompat_jauh = Kat_TB=='Normal' & LTBT >= 2 &
LT == 5 & LBB >= 2 & LK >= 3 & L40M >= 4 & MFT >= 2,.ordered = TRUE,
.method = "first", .default = "-----")) Data2 = mutate(Data2,
Lempar_Cakram=derivedFactor(Lempar_Cakram = LTBT >= 3 & LT >= 4 &
LBB == 5 & LK >= 3 & L40M >= 4 & MFT >=2,.ordered = TRUE, method =
"first", .default = "-----")) Data2 = mutate(Data2,
Lempar_lembing=derivedFactor(Lempar_lembing = LTBT >= 3 & LT >= 4 &
LBB == 5 & LK >= 3 & L40M >= 4 & MFT >= 2,.ordered = TRUE, method =
"first", .default = "-----")) Data2 = mutate(Data2,
Lompat_Jangkit=derivedFactor(Lompat_Jangkit = LTBT >= 2 & LT == 5 & LBB
>= 2 & LK >= 3 & L40M == 5 & MFT >= 2,.ordered = TRUE, method = "first",

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& LT == 5 & LBB >= 2 & LK >= 4 & L40M >= 4 & MFT >= 2,.ordered =
TRUE,.method = "first",.default = "-----")) Data2 = mutate(Data2,
Lompat_galah=derivedFactor(Lompat_galah = LTBT >= 3 & LT == 5 & LBB
>= 4 & LK >= 3 & L40M >= 4 & MFT >= 2,.ordered = TRUE, method = "first",
.default = "-----")) Data2 = mutate(Data2,
Lompat_Indah=derivedFactor(Lompat_Indah = LTBT >= 4 & LT == 5 & LBB
== 5 & LK == 5 & L40M >= 4 & MFT >= 2,.ordered = TRUE, method = "first",
.default = "-----")) Data2 = mutate(Data2,
Lontar_Martil=derivedFactor(Lontar_Martil = LTBT >= 3 & LT >= 4 & LBB ==
5 & LK >= 2 & L40M >= 2 & MFT >= 1,.ordered = TRUE, method = "first",
.default = "-----")) Data2 = mutate(Data2, Panahan =derivedFactor(Panahan =
LTBT == 5 & LT >= 2 & LBB == 5 & LK >= 1 & L40M >= 1 & MFT >=
3,.ordered = TRUE,.method = "first",.default = "----- ")) Data2 =
mutate(Data2, Panjat_Tebing =derivedFactor(Panjat_Tebing = LTBT == 5 & LT
== 5 & LBB >= 2 & LK >= 4 & L40M >= 4 & MFT >= 4,.ordered = TRUE,
.method = "first",.default = "-----")) Data2 = mutate(Data2,
Renang_Jarak_Pendek = derivedFactor(Renang_Jarak_Pendek = LTBT >= 3 &
LT == 5 & LBB == 5 & LK >= 3 & L40M == 5 & MFT >= 4,.ordered = TRUE,
.method = "first",.default = "-----")) Data2 = mutate(Data2,
Renang_Jarak_Jauh = derivedFactor(Renang_Jarak_Jauh = LTBT >= 3 & LT >=
4 & LBB == 5 & LK >= 3 & L40M >= 4 & MFT == 5,.ordered = TRUE,
.method = "first",.default = "-----")) Data2 = mutate(Data2, Senam
=derivedFactor(Senam = LTBT >= 4 & LT == 5 & LBB == 5 & LK == 5 &
L40M >= 4 & MFT >= 2,.ordered = TRUE,.method = "first",.default = "-----
")) Data2 = mutate(Data2, Sepakbola =derivedFactor(Sepakbola = LTBT >= 4
& LT >= 4 & LBB >= 3 & LK >= 4 & L40M >= 4 & MFT >= 4,.ordered =
TRUE,.method = "first",.default = "----- ")) Data2 = mutate(Data2,
Sepaktakraw=derivedFactor(Sepaktakraw = LTBT >= 4 & LT == 5 & LBB == 5
& LK == 5 & L40M >= 4 & MFT >=4,.ordered = TRUE, method = "first",
.default = "-----")) Data2 = mutate(Data2, Sepeda=derivedFactor(Sepeda =
LTBT >= 3 & LT == 5 & LBB >= 4 & LK >= 4 & L40M >= 4 & MFT ==
5,.ordered = TRUE,.method = "first",.default = "----- ")) Data2 =
mutate(Data2, Softball=derivedFactor(Softball = LTBT == 5 & LT >= 4 & LBB
>= 4 & LK >= 4 & L40M >= 4 & MFT >= 4,.ordered = TRUE, method = "first",
.default = "-----")) Data2 = mutate(Data2, Squas=derivedFactor(Squas =
LTBT == 5 & LT >= 4 & LBB == 5 & LK == 5 & L40M == 5 & MFT >= 4,

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>= 1 & LK >= 4 & L40M >= 4 & MFT == 5,.ordered = TRUE, .method =
"first",.default = "-----")) Data2 = mutate(Data2,
Taekwondo=derivedFactor(Taekwondo = LTBT >= 4 & LT == 5 & LBB == 5
& LK == 5 & L40M >= 4 & MFT >= 4,.ordered = TRUE, method = "first",
.default = " -----")) Data2 = mutate(Data2, Tennis=derivedFactor(Tennis = LTBT
== 5 & LT == 5 & LBB == 5 & LK == 5 & L40M >= 4 & MFT == 5,.ordered
= TRUE, .method = "first", .default = "-----")) Data2 = mutate(Data2,
Tennis_Meja=derivedFactor(Tennis_Meja = LTBT == 5 & LT >= 3 & LBB >= 3
& LK >= 3 & L40M >= 3 & MFT >= 3,.ordered = TRUE, method = "first",
.default = " -----")) Data2 = mutate(Data2, Tinju =derivedFactor(Tinju= LTBT
>= 4 & LT >= 3 & LBB == 5 & LK >= 4 & L40M >= 4 & MFT >= 4,.ordered
= TRUE, .method = "first", .default = "-----")) Data2 = mutate(Data2,
Tolak_Peluru =derivedFactor(Tolak_Peluru = LTBT >= 3 & LT >= 4 & LBB
== 5 & LK >= 2 & L40M >= 2 & MFT >= 1,.ordered = TRUE, method =
"first",.default = "-----")) # ===== Out Put
===== Data3 = createWorkbook()
addWorksheet(Data3, "Jenis_Bakat") writeData(Data3, "Jenis_Bakat", Data2,
startCol = 1, startRow = 1) saveWorkbook(Data3, "D:/1. Ilmu_Statistik/5.
Statistika Pendidikan/Adrizar/Hasil_Identifikasi_Bakat_Olahraga.xlsx", overwrite
= TRUE)

```


DAFTAR LAMPIRAN

1. Data Penelitian

No	Kode	Gender	Umur	TB	TD	BB	RL	LTBT	LBB	LT	LK	L40M	MFT
1	Raja	Putra	13	127	26	32	52	18	6,81	29	18,62	6,84	8,6
2	Rasyif	Putra	13	125	25	29	48	15	6,78	30	18,58	6,86	6,8
3	Agra	Putra	13	151	78	41	63	18	8,45	48	15,86	5,80	10,8
4	Aidil	Putra	14	147	70	33	60	17	7,80	43	17,60	5,50	9,3
5	Ali	Putra	13	126	26	28	51	15	6,80	33	18,60	6,83	8,3
6	Fadlan	Putra	13	146	51	35	58	18	8,10	46	15,85	5,49	10,9
7	Ghani	Putra	13	127	25	27	29	16	6,80	24	18,73	6,70	8,4
8	Azka	Putra	14	150	53	38	59	17	7,83	34	17,40	6,72	8,5
9	Tohi	Putra	13	130	27	30	51	18	6,83	44	15,50	5,73	10,5
10	Azizi	Putra	13	152	76	39	58	19	8,50	39	17,30	6,19	9,6
11	Tegar	Putra	14	148	49	33	57	16	7,78	32	17,37	6,17	8,7
12	Ariel	Putra	13	151	75	38	60	18	8,57	45	16,23	5,37	10,2
13	Didan	Putra	13	129	28	31	50	15	6,83	34	18,60	6,20	7,4

No	Kode	Gender	Umur	TB	TD	BB	RL
1	A1	Putra	13	127	26	32	52
2	A2	Putra	13	125	25	29	48
3	A3	Putra	13	151	78	41	63
4	A4	Putra	14	147	70	33	60
5	A5	Putra	13	126	26	28	51
6	A6	Putra	13	146	51	35	58
7	A7	Putra	13	127	25	27	29
8	A8	Putra	14	150	53	38	59
9	A9	Putra	13	130	27	30	51
10	A10	Putra	13	152	76	39	58
11	A11	Putra	14	148	49	33	57
12	A12	Putra	13	151	75	38	60
13	A13	Putra	13	129	28	31	50

LTBT	LBB	LT	LK	L40M	MFT	Data antropoKat_TB	
5	3	3	4	3	3	Putra-13	Tidak_Norm
4	3	3	4	3	3	Putra-13	Tidak_Norm
5	5	5	5	5	5	Putra-13	Tidak_Norm
4	4	4	4	5	4	Putra-14	Tidak_Norm
4	3	3	4	3	3	Putra-13	Tidak_Norm
5	5	5	5	5	5	Putra-13	Tidak_Norm
4	3	2	3	3	3	Putra-13	Tidak_Norm
4	4	3	4	3	3	Putra-14	Tidak_Norm
5	3	5	5	5	5	Putra-13	Tidak_Norm
5	5	4	4	4	4	Putra-13	Tidak_Norm
4	4	3	4	4	3	Putra-14	Tidak_Norm
5	5	5	5	5	5	Putra-13	Tidak_Norm
4	3	3	4	4	3	Putra-13	Tidak_Norm

Anggar	Angkat_Besi	Base_Ball	Bola_Basket	Bola_Tangan	Bolavoli	Bulutangkis	Dayung
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Anggar	Angkat_Besi	Base_Ball	-----	Bola_Tangan	-----	Bulutangkis	Dayung
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Anggar	Angkat_Besi	Base_Ball	-----	Bola_Tangan	-----	Bulutangkis	Dayung
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Anggar	-----	Base_Ball	-----	Bola_Tangan	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Anggar	Angkat_Besi	Base_Ball	-----	Bola_Tangan	-----	Bulutangkis	Dayung
-----	-----	-----	-----	-----	-----	-----	-----

Hoki	Jalan	Judo	Kano	Karate_Do	Kungfu	Lari_cepat	Jari_Jarak_Jauh
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Hoki	Jalan	Judo	Kano	Karate_Do	Kungfu	Lari_cepat	Jari_Jarak_Jauh
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Hoki	Jalan	Judo	Kano	Karate_Do	Kungfu	Lari_cepat	Jari_Jarak_Jauh
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
-----	Jalan	-----	-----	-----	-----	Lari_cepat	Jari_Jarak_Jauh
-----	-----	Judo	Kano	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Hoki	Jalan	Judo	Kano	Karate_Do	Kungfu	Lari_cepat	Jari_Jarak_Jauh
-----	-----	-----	-----	-----	-----	-----	-----

Lari_Gawang	Lompat_jauh	Lempat_Cakram	Lempat_lembing	Lompat_Jangkit	Lompat_Tinggi
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----
Lari_Gawang	-----	Lempat_Cakram	Lempat_lembing	Lompat_Jangkit	-----
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----
Lari_Gawang	-----	Lempat_Cakram	Lempat_lembing	Lompat_Jangkit	-----
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----
Lari_Gawang	-----	-----	-----	Lompat_Jangkit	-----
-----	-----	Lempat_Cakram	Lempat_lembing	-----	-----
-----	-----	-----	-----	-----	-----
Lari_Gawang	-----	Lempat_Cakram	Lempat_lembing	Lompat_Jangkit	-----
-----	-----	-----	-----	-----	-----

Lompat_galah	Lompat_Indah	Lontar_Martil	Panahan	Panjat_Tebing	Renang_Jarak_Pendek
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----
Lompat_galah	Lompat_Indah	Lontar_Martil	Panahan	Panjat_Tebing	Renang_Jarak_Pendek
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----
Lompat_galah	Lompat_Indah	Lontar_Martil	Panahan	Panjat_Tebing	Renang_Jarak_Pendek

-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	Panjat_Tebing	-----
-----	-----	Lontar_Martil	Panahan	-----	-----
-----	-----	-----	-----	-----	-----
Lompat_galah	Lompat_Indah	Lontar_Martil	Panahan	Panjat_Tebing	Renang_Jarak_Pendek
-----	-----	-----	-----	-----	-----

Senam	Sepakbola	Sepaktakraw	Sepeda	Softball	Squas	Steepplee chase	Taekwondo
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Senam	Sepakbola	Sepaktakraw	Sepeda	Softball	Squas	Steepplee chase	Taekwondo
-----	Sepakbola	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Senam	Sepakbola	Sepaktakraw	Sepeda	Softball	Squas	Steepplee chase	Taekwondo
-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
-----	Sepakbola	-----	-----	-----	-----	Steepplee chase	-----
-----	Sepakbola	-----	-----	Softball	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----	-----
Senam	Sepakbola	Sepaktakraw	Sepeda	Softball	Squas	Steepplee chase	Taekwondo
-----	-----	-----	-----	-----	-----	-----	-----

Tenis	Tenis_Meja	Tinju	Tolak_Peluru
-----	Tenis_Meja	-----	-----
-----	-----	-----	-----
Tenis	Tenis_Meja	Tinju	Tolak_Peluru
-----	-----	-----	-----
-----	-----	-----	-----
Tenis	Tenis_Meja	Tinju	Tolak_Peluru
-----	-----	-----	-----
-----	-----	-----	-----
-----	Tenis_Meja	-----	-----
-----	Tenis_Meja	Tinju	Tolak_Peluru
-----	-----	-----	-----
Tenis	Tenis_Meja	Tinju	Tolak_Peluru
-----	-----	-----	-----

2. Dokumentasi

PENGUKURAN TINGGI BADAN



PENGUKURAN TINGGI DUDUK



PENGUKURAN BERAT BADAN



PENGUKURAN RENTANG LENGAN



LEMPAR TANGKAP BOLA TENIS



LEMPAR BOLA BASKET



LOCAT TEGAK



LARI KELINCAHAN



LARI 40 METER



MFT



PB.ASKOB



ALAT



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