```
/*TO STUDY THE GRAPHICAL REPRESENTATION STUDY VARIABLE*/
data athlete;
input id age race$ sbp dbp hr;
Avg_bp=(sbp/3)+(2/3*dbp);
datalines;
4101 18 W 130 80 60
4102 18 W 140 90 70
4103 19 B 120 70 64
4104 17 B 150 90 76
4105 18 B 124 86 72
4106 19 W 145 94 70
4107 23 B 125 78 68
4108 21 W 140 85 74
4109 18 W 150 82 65
4110 20 W 145 95 75
;
run;
proc print noobs;
data DIKSHA.athlete;
set athlete;
run;
proc means data=DIKSHA.ATHLETE;
var age sbp dbp ;
class race;
output out=des_athlete mean=avg_age avg_sbp avg_dbp std=sd_age sd_sbp sd_dbp;
run;
* For Confidence interval *;
proc univariate data=DIKSHA.athlete cibasic(alpha=0.10) mu0=130;
var sbp;
run;
PROC UNIVARIATE DATA=DIKSHA.ATHLETE cibasic;
var dbp;
PROC UNIVARIATE DATA=DIKSHA.ATHLETE plot normal;
var sbp;
proc sgplot data=DIKSHA.ATHLETE;
title'boxplot for sbp';
hbox sbp;
yaxis grid;
/*vbox sbp;*/
proc plot data= DIKSHA.athlete;
plot sbp*dbp='b';
title'scatter plot';
run;
```