\*Calculation for linear Regression using SAS ;

/\* First do a simple linear regression \*/

LIBNAME GBD "D:\Consulation";

**PROC** **IMPORT** OUT= GBD.Data

DATAFILE= "D:\Consulation\GBD\Data.sav"

DBMS=SPSS REPLACE;

**RUN**;

**PROC** **REG** DATA = GBD.Data ;

model JMEStunting2022 = Unsafewater Unsafesanitation UHC2021 SDI2021 HAQindex2021 Malaria Nematode Diarrhoea HIV2021 TB Noncerealplantprotein

TotalanimalProteingmcapitaday Totalkcalpdayavail Wheatandproducts Riceandproducts Maizeandproducts Milletandproducts Sorghumandproducts

Cassavaandproducts ;

output out = t student=res cookd = cookd h = lev;

**run**;

**quit**;

**DATA** t;

SET t;

resid\_sq = res\*res;

**RUN**;

**PROC** **SGPLOT** DATA = t;

SCATTER Y = lev X = resid\_sq / DATALABEL = Cassavaandproducts;

**RUN**;

**QUIT**;

**proc** **print** data = t;

where cookd > **4**/**130**;

var Unsafewater Unsafesanitation UHC2021 SDI2021 HAQindex2021 Malaria Nematode Diarrhoea HIV2021 TB Noncerealplantprotein

TotalanimalProteingmcapitaday Totalkcalpdayavail Wheatandproducts Riceandproducts Maizeandproducts Milletandproducts

Sorghumandproducts Cassavaandproducts cookd;

**run**;

\*------------ Robust Regression -------------------;

ODS RTF FILE = "D:\Consulation\GBD\SAMPLE .RTF";

**PROC** **ROBUSTREG** DATA = GBD.Data METHOD = mm ;

model JMEStunting2022 = Unsafewater Unsafesanitation UHC2021 SDI2021 HAQindex2021 Malaria Nematode Diarrhoea HIV2021 TB Noncerealplantprotein

TotalanimalProteingmcapitaday Totalkcalpdayavail Wheatandproducts Riceandproducts Maizeandproducts Milletandproducts Sorghumandproducts

Cassavaandproducts /diagnostics leverage;

**run**;

ODS RTF CLOSE;