**proc** **import** datafile="C:\Users\GEORGE JENIF\Downloads\Clinical\_project\Clinical\_Project - Lab\_data.xlsx" out=lab\_test

dbms=xlsx replace;

sheet="Table 1 - Data Set WORK.LAB\_";

**run**;

/\*Variable types display\*/

**proc** **contents** data=lab\_test;

**run**;

/\*conditions for lbstnlo & lbstnhi & lbstresn\*/

**data** lab\_test\_c;

length lbnirnd $20.; /\*declare lbnirind variable char datatype\*/

set lab\_test;

if not missing(lbstnrlo) and not missing(lbstnrhi) then do;

if lbstnrlo<=lbstresn<=lbstnrhi then lbnirnd="NORMAL";

else if lbstresn>lbstnrhi then lbnirnd="HIGH";

else if lbstresn<lbstnrlo then lbnirnd="LOW";

end;

**run**;

**proc** **print** data=lab\_test\_c;

**run**;

/\*Discrepency Finding and Removing\*/

**proc** **sort** data=lab\_test\_c nodupkey dupout=date\_usubjid out=lab\_test\_ca;

by usubjid lbdtc;

**run**;

**proc** **print** data=lab\_test\_ca;

**run**;

/\*Sorting variable by lbnrind\*/

**proc** **sort** data=lab\_test\_ca out=lab\_test\_ca1;

by lbtest lbnirnd;

**run**;

**proc** **print** data=lab\_test\_ca1;

**run**;

/\*Finding \_TYPE\_ FREQ STAT and MIN MAX \*/

**proc** **means** data=lab\_test\_ca1;

by lbtest lbnirnd;

/\*class lbtest lbnrind\*/

var lbstresn; output out=lab\_test\_c2;

**run**;

**proc** **print** data=lab\_test\_ca2;

**run**;

/\*After Finding N then Sort by lbtest lbnirnd for entire display\*/

**proc** **sort** data=lab\_test\_c2 out=lab\_test\_c1c;

by lbtest lbnirnd;

**run**;

**proc** **print** data=lab\_test\_c1c;

**run**;

/\*Read Data from lab\_test\_c1c and swap data one variable to another\*/

**data** lab\_test\_c3;

set lab\_test\_c1c;

page\_brk=ceil(\_n\_/**10**);/\*page\_brk for 10 lines\*/

col1=lbtest;

col2=lbnirnd;

col3=\_stat\_;

col4=lbstresn;

**run**;

**proc** **print** data=lab\_test\_c3;

**run**;

**proc** **contents** data=lab\_test\_c3;

**run**;

/\*After Sorting the data by page\_brk lbtest lbnirnd \*/

**proc** **sort** data=lab\_test\_c3 out=lab\_test\_c4;

by page\_brk col1 col2;

**run**;

**proc** **print** data=lab\_test\_c4;

**run**;

**proc** **report** data=lab\_test\_c4;

column page\_brk col1 col2 col3 col4;

define page\_brk / Display "No\_of\_Test";

define col1 / Display "Lab\_test";

define col2 / Display "Lab\_range";

define col3 / Display"Statistics";

define col4 / Display"Resuls";

**run**;

/\*13.8–17.2 g/dL for men and 12.1–15.1 g/dL for women\*/

/\*glucose level is 70–99 mg/dL (3.9–5.5 mmol/L), while higher levels can indicate prediabetes or diabetes.\*/

**proc** **report** data=lab\_ta;

column usubjid lbtest lbstresn lbstresu lbnirnd;

define usubjid / group ;

define lbtest / Display;

define lbstresn / Display;

define lbstresu / Display;

define lbnirnd / Display;

**run**;

**data** lab\_ta;

set lab\_test\_c;

where lbnirnd in("HIGH","LOW");

**run**;

**proc** **print** data=lab\_ta;

**run**;