**SAS macro graded assignment by Avijit Mallick;**

**Path: Y:\Practice\Avijit Mallick Graded assignment\SAS Macro Graded Assignment.**

/\*\*\*\*\*\* saving file in permanent path\*\*\*\*/

Options mstored sasmstore = marcosga;

libname marcosga 'Y:\Practice\Practice data sheet\sql\macro\Data set\';

options symbolgen;

options mprint ;

options mlogic;

/\*\*\*\*\*\* Question 1 \*\*\*\*/

%macro import(file,n,delim)/store source des ="assignment\_file";

%let lib = Y:\Practice\Practice data sheet\sql\macro\Data set\;

**proc** **import** datafile = "&lib&file"

out = type&n dbms = &delim replace;

**run**;

%mend import;

*%import*(file=sample.csv, n=1, delim = csv);

*%import*(file=scores.txt, n=2,delim = TAB);

**proc** **print** data = type1;

**run**;

**proc** **print** data = type2;

**run**;

/\*\*\*\*\*\* Question 2 \*\*\*\*/

**proc** **import** datafile = 'Y:\Practice\Practice data sheet\sql\macro\Data set\HTWT.csv'

out =HTWT dbms = csv replace;

**run**;

/\*\*\*\*\*\* Question 2a \*\*\*\*/

%macro bchart(var1,var2)/store source des ="ploting";

**proc** **gchart** data = HTWT;

vbar &var1/sumvar=&var2;

title "average weight by gender";

**run**;

%mend;

*%bchart*(var1=gender, var2 = weight);

/\*\*\*\*\*\* Question 2b \*\*\*\*/

%macro splot(Height,Weight)/store source des ="Splot";

**proc** **plot** data = HTWT;

plot &Height.\*&Weight.;

title "weight by Height";

**run**;

%mend;

*%splot*(Height =Height, Weight= Weight);

/\*\*\*\*\*\* Question 3a \*\*\*\*/

**proc** **import** datafile = 'Y:\Practice\Practice data sheet\sql\macro\Data set\HTWT.csv'

out =HTWT1 dbms = csv replace;

**run**;

**proc** **print** data = HTWT1;

**run**;

%macro record(start,end)/store source des ="reading";

**proc** **print** data = HTWT1 (firstobs = &start obs =&end);

**run**;

%mend;

*%record*(5,15);

/\*\*\*\*\*\* Question 3b \*\*\*\*/

%macro compare(n1,n2)/store source des ="comparing\_two";

%if *%eval*(&n1=&n2)%then %do;

%put "Numbers are equal";

%end;

%else %do;

%if *%eval*(&n1>&n2) %then %do;

%put "&n1 is greater then &n2";

%end;

%else %if *%eval*(&n1<&n2) %then %do;

%put "&n1 is less then &n2";

%end;

%end;

%mend compare;

*%compare*(n1 =9, n2=7);

/\*\*\*\*\*\* Question 4 \*\*\*\*/

**data** revenue;

input year revenue;

**datalines**;

2010 5000

2011 3456

2012 4536

2013 4000

2014 5647

2015 5743

2016 6578

2017 7658

2018 2343

;

**run**;

%macro income(name)/store source des ="revenue\_year";

**proc** &name data = revenue;

var revenue;

**run**;

%mend income;

*%income*(univariate);

*%income*(means)

/\*\*\*\*\*\* Question 5 \*\*\*\*/

%include 'Y:\Practice\Practice data sheet\sql\macro\Data set\macro definition.txt';

*%contents\_of*(HTWT1);

*%print\_data*(HTWT1);

/\*\*\*\*\*\* Question 6 \*\*\*\*/

Options mstored sasmstore = marcosga;

**proc** **catalog** catalog = marcosga.sasmacr;

contents;

**run**;