Data Class;

Input ClassID $ Year Age Height Weight;

Datalines;

A1234 2013 8 85 34

A2323 2013 9 81 36

B3423 2013 8 80 31

B5324 2013 9 70 35

C2342 2013 9 80 31

D3242 2013 9 85 30

A1234 2019 14 105 64

A2323 2019 15 101 66

B3423 2019 14 100 61

B5324 2019 15 90 55

C2342 2019 15 112 70

D3242 2019 14 112 70

;

%macro demo(File=);

Data New;

Set WORK.&File;

New\_Weight=Weight\*1.1;

Run;

%mend;

%demo(File=Class);

Data New;

Set &File;

New\_Weight=Weight\*1.1;

Run;

\*xxx;

%Let File = Class;

Data New;

Set WORK.&File;

New\_Weight=Weight\*1.1;

Run;

%PUT The resolution of macro variable File is &File;

\*xxx;

Options MLOGIC;

%demo(File=Class);

\*xxx;

Options MPRINT;

%demo(File=Class);

\*xxx;

Options SYMBOLGEN;

%demo(File=Class);

\*xxx;

options mprint mfile;

filename mprint 'C:\Users\hpgul\Documents\SASUniversityEdition\myfolders';

Options MPRINT;

%demo(File=Class);

\*xxx;

%macro demo\_sort(File=);

Data New;

Set WORK.&File;

New\_Weight=Weight\*1.1;

Run;

%if &File ne “” %then %do;

Proc Sort Data=New;

By Descending New\_Weight;

Run;

%end;

%mend;

%demo\_sort (File=Class);

\*xxx;

OPTIONS MLOGIC;

%macro demo\_sort(File, Variable);

Data New;

Set WORK.&File;

New\_Weight=&Variable\*1.1;

Run;

%if &File ne “” %then %do;

Proc Sort Data=New;

By Descending New\_Weight;

Run;

%end;

%mend;

%demo\_sort (Weight, Class);

%demo\_sort (Class, Weight);

\*xxx;

OPTIONS MPRINT;

%macro data\_driven;

Proc Sort Data = Class Out = Sorted;

By Descending Year Age Descending Height;

Run;

Data First;

Set Sorted;

By Descending Year Age Descending Height;

If First.Year and First.Height then output First;

Run;

Data \_NULL\_;

Set First;

If Year eq 2019 then call symput("Tallest\_2019", ClassID);

If Year eq 2013 then call symput("Tallest\_2013", ClassID);

\*Test\_Call\_Symput=&Tallest\_2019; \*Test to see if the macro variable can be referenced;

Run;

Proc Print Data = Class Noobs;

Where Year = 2019 and ClassID = "&Tallest\_2019";

Title "Youngest and Tallest Child in Current Year who weighs the least";

Proc Print Data = Class Noobs;

Where Year = 2013 and ClassID = "&Tallest\_2013";

Title "Youngest and Tallest Child in 2013 Year who weighs the least";

Run;

%mend data\_driven;

%data\_driven;

\*xxx;

Data Sales;

Input SaleDate Date9. Product $ Sales;

Format SaleDate Date9.;

Datalines;

01Aug2019 Med1 56

02Aug2019 Med2 45

02Aug2019 Med3 48

05Aug2019 Med2 56

05Aug2019 Med3 55

06Aug2019 Med1 67

07Aug2019 NA 0

08Aug2019 Med1 54

09Aug2019 Med1 45

12Aug2019 Med2 50

13Aug2019 Med1 45

13Aug2019 Med3 53

14Aug2019 Med2 67

15Aug2019 NA 0

16Aug2019 Med2 45

;

OPTIONS MPRINT MLOGIC SYMBOLGEN;

%macro dual\_reporting;

Data Sales\_Week;

Set Sales;

Week = Week(SaleDate);

Run;

%if &sysday eq Tuesday %then %do;

Title 'Mid Week Detailed Sales Report';

Proc Print Data = Sales\_Week;

By Week;

Run;

%end;

%if &sysday eq Tuesday %then %do;

Title 'End of Week Sales Report Summary';

Proc Tabulate Data = Sales\_Week;

Class Product Week;

Var Sales;

Table Product, Week, Sales;

Run;

%end;

%mend dual\_reporting;

%dual\_reporting;

\*xxx;

%Let A1 = (1+0);

%Let A2 = (1+5);

%Let A3 = (10-5);

%Let A4 = (10/5);

%Let A5 = (10/3);

%Let A6 = (1-0.1);

%Let eval\_A1 = %eval(&A1);

%Let eval\_A2 = %eval(&A2);

%Let eval\_A3 = %eval(&A3);

%Let eval\_A4 = %eval(&A4);

%Let eval\_A5 = %eval(&A5);

%Let eval\_A6 = %eval(&A6);

%PUT eval\_A1 = &eval\_A1;

%PUT eval\_A2 = &eval\_A2;

%PUT eval\_A3 = &eval\_A3;

%PUT eval\_A4 = &eval\_A4;

%PUT eval\_A5 = &eval\_A5;

%PUT eval\_A6 = &eval\_A6;

\*xxx;

%Let A6 = (1-0.1);

%Let eval\_A6 = %sysevalf(&A6);

%PUT eval\_A6 = &eval\_A6;

\*xxx;

%sysevalf(10/3, boolean);

%sysevalf(1-0.1, boolean);

%sysevalf(1-., boolean);