**Workshop1-B**

**Boot: Learning SAS by Example: A programmer's Guide**

**Chapter 3**

**Section: 3.15:**

**Problems: 1 to 11**

**Question 1**

\*SAS program to read from scores.txt file and perform data, proc and assignment operations.

\*1-a;

\*Reading values;

data scores\_of\_subjects;

infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/scores.txt';

input Gender : $1. English History Math Science;

run;

\*1-b;

data scores; set scores\_of\_subjects;

Average\_of\_subjects = (English + History + Math + Science)/4;

run;

\*1-c;

title 'The list of scores :';

proc print data=scores\_of\_subjects;

run;

**Question 2**

\* SAS program to read csv file named Political and perform procedures on different variables.;  
  
\*2-a;  
data Vote;  
infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/political.csv' dsd;  
input State $ Party $ Age;  
run;  
  
\*2-b;  
title 'List of observations in Vote :';  
proc print data=Vote;  
run;  
  
  
\*2-c;  
title 'Frequencies of the table Party :';  
proc freq data=Vote;  
table Party;  
run;

**Question 3**

\*SAS program to create dataset from input file where $ is used as delimeter, and

create variables accordingly.;

data Company;

infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/company.txt' dsd dlm='$';

input LastName $ EmpNo $ Salary;

format Salary dollar10.;

run;

title 'Details of Company employees :';

proc print data=Company;

run;

**Question 4**

\* SAS program to read csv file named Political and perform procedures on different variables.;  
filename path1 '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/political.csv';  
\*4-a;  
data Vote;  
infile path1 dsd;  
input State $ Party $ Age;  
run;  
  
\*4-b;  
title 'List of observations in Vote :';  
proc print data=Vote;  
run;  
  
  
\*4-c;  
title 'Frequencies of the table Party :';  
proc freq data=Vote;  
table Party;  
run;

**Question 5**

\*SAS program that reads from DATALINES and computes variable.;  
  
data equation;  
input X Y;  
 Z = 100+(50\*X)+2\*(X\*\*2)-(25\*Y)+(Y\*\*2);  
datalines;  
1 2  
3 6  
5 9  
9 11  
;  
title 'Computation of variables :';  
proc print data=equation;  
run;

**Question 6**

\*SAS program using column input and computing variable and printing it;

data Bank;

infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/bankdata.txt';

input Name $ 1-15

Acct $ 16-20

Balance 21-26

Rate 27-30;

Interest = Balance \* Rate;

run;

title 'Bank data of some people :';

proc print data=Bank;

run;

**Question 7**

\*SAS program using column input to read data values;

data Cache;

infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/geocaching.txt';

input Name $ 1-20

LongDeg 21-22

LongMin 23-28

LatDeg 29-30

LatMin 31-36;

run;

title 'Geocaching';

proc print data=Cache;

run;

**Question 8**

\*SAS program using formatted input and computing variable and printing it;

data Bank;

infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/bankdata.txt';

input @1 Name $ 19.

@16 Acct $ 5.

@21 Balance 6.

@27 Rate 3.;

Interest = Balance \* Rate;

run;

title 'Bank data of some people :';

proc print data=Bank;

run;

**Question 9**

\*SAS program using formatted input to read data values;  
data Cache;  
infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/geocaching.txt';  
input @1 Name $ 20.  
 @21 LongDeg 22.  
 @23 LongMin 28.  
 @29 LatDeg 30.  
 @31 LatMin 36.;  
run;  
title 'Geocaching';  
proc print data=Cache;  
run;

**Question 10**

\*SAS program to read from stockprices.txt and computing new variables;

data Stocks;

infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/stockprices.txt';

input @1 Stock $4.

@5 PurDate mmddyy10.

@17 PurPrice dollar6.

@21 Number 4.

@25 SellDate mmddyy10.

@35 SellPrice dollar5.;

TotalPur = Number \* PurPrice;

TotalSell = Number \* SellPrice;

Profit = TotalSell - TotalPur;

run;

title 'Stock prices and calculations :';

proc print data=Stocks;

Format PurDate mmddyy10.

PurPrice dollar11.2

SellPrice dollar11.2

Profit dollar11.2;

run;

**Question 11**

\*SAS program to read from csv file using given formats and compute procedures;

data Employ;

infile '/home/u58712040/my\_shared\_file\_links/u56456355/BAN130/employee.csv' dsd;

informat ID $3.

Name $20.

Depart $8.

DateHire mmddyy10.

Salary dollar8.;

input ID Name Depart DateHire Salary;

format DateHire mmddyy10.;

run;

title 'List of Employees :';

proc print data=Employ;

Format Salary dollar11.2;

run;

title 'Frequencies for the variable Depart :';

proc freq data=Employ;

table Depart;

run;