```
1    /***Your Name Ji Shen
2         Date 1/15/2015
3         ST 555
4         Homework number 2
5         Goal:
6         To apply concepts from the chapters to a set of problems
7         ***/
8
9
10   %let path=D:\google drive\NC semester 6\st555\Data;
11
12   libname orion "D:\google drive\NC semester 6\st555\Data";
NOTE: Libref ORION was successfully assigned as follows:
      Engine:        V9
      Physical Name: D:\google drive\NC semester 6\st555\Data
13
14   /*Problem 1: Check how many data in Orion libary are created */
15   title; * clear titles;
16   proc contents data=orion._all_ nods; *viewing variable names and attributes;
NOTE: Writing HTML Body file: sashtml.htm
17   run;

NOTE: PROCEDURE CONTENTS used (Total process time):
      real time           1.23 seconds
      cpu time            1.10 seconds


18
19   /*Problem 3: Create Group Introduction Dataset */
20
21   data Orion.GroupIntro;
22        length name$ 8 age sex$ 1 decipline$ 25 ;
23        input name$ age sex$  decipline$  GroupTrait$;
24        datalines;

NOTE: The data set ORION.GROUPINTRO has 4 observations and 5 variables.
NOTE: DATA statement used (Total process time):
      real time           0.03 seconds
      cpu time            0.00 seconds


29   run;
30
31   proc print data=orion.GroupIntro; *question 1b: Printing the results of the dataset;
32        title 'Group Introduction'; *1b: Giving the printout an appropriate title;
33   run;

NOTE: There were 4 observations read from the data set ORION.GROUPINTRO.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.06 seconds
      cpu time            0.01 seconds


34
35   /*Problem 4: Check how many data in Orion libary are created */
36
```

```
37   DATA Tecator; /* see http://lib.stat.cmu.edu/datasets/tecator for details */
38   * Each sample contains finely chopped pure meat with different moisture, fat and protein
38 ! contents ;
39   input Fat Moisture Protein;
40   datalines ;

NOTE: The data set WORK.TECATOR has 21 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           0.01 seconds
      cpu time            0.01 seconds



62   ;
63   RUN;
64   /*** END Data Step for HW2: Question IV ***/
65   title;
66   * Q4c: viewing variable names and attributes;
67   proc contents data=tecator ;
68   run;

NOTE: PROCEDURE CONTENTS used (Total process time):
      real time           0.06 seconds
      cpu time            0.01 seconds



69   *Q4d: Printing the results of the dataset;
70   proc print data=tecator;
71       title 'Tecator'; * Giving the printout an appropriate title;
72   run;

NOTE: There were 21 observations read from the data set WORK.TECATOR.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.07 seconds
      cpu time            0.01 seconds



73   *Q4e: Printing means of the dataset;
74   proc means data = tecator mean maxdec=2 fw=18;
75       var fat moisture;
76       title 'Mean of Fat and Moisture';
77   run;

NOTE: There were 21 observations read from the data set WORK.TECATOR.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           0.09 seconds
      cpu time            0.04 seconds
```