**Practical No. 6**

**Aim**: To Customize, Read SAS data sets and create permanent formats.

**Prerequisite:**

1. Understanding of fundamental programming constructs of Base SAS

**Outcome:** After successful completion of this experiment students will be able to

1. Use a Set command to read from an existing SAS data set.
2. Creation of a new variable using assignments statements.
3. Using Label and Format statements in the DATA step.

(TO BE COMPLETED BY STUDENTS)

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| Class:B.Tech IT | Batch:A1 |
| Date of Practical: | Date of Submission: |
| Grade: |  |

**Assignment 1:**

For the following program

Proc print data=orion.au\_salesforce;

Run;

Write a DATA step to create a new data set named work.assistant. use the data set orion.au\_salesforce as input.

The work.assistant data set should contain observations where gender is Female

Create a new variable New\_salary which is Salary multiplied by 0.10

Add the following permanent labels:

New\_Salary: New Annual Salary

Salary: Employee Annual Salary

Add permanent format to display new\_salary using dollar 10.2 format

Work.assistant should contain only employee\_id,gender, Salary, New\_salary and job\_title.

**Code of the program:**

LIBNAME orion "d://PA\_2021\_22/Data\_sets";

**data** work.assistant;

set orion.au\_salesforce;

where Gender ="F";

New\_Salary =Salary+Salary\***0.10**;

label New\_Salary = "New Annual Salary"

Salary ="Employee Annual Salary";

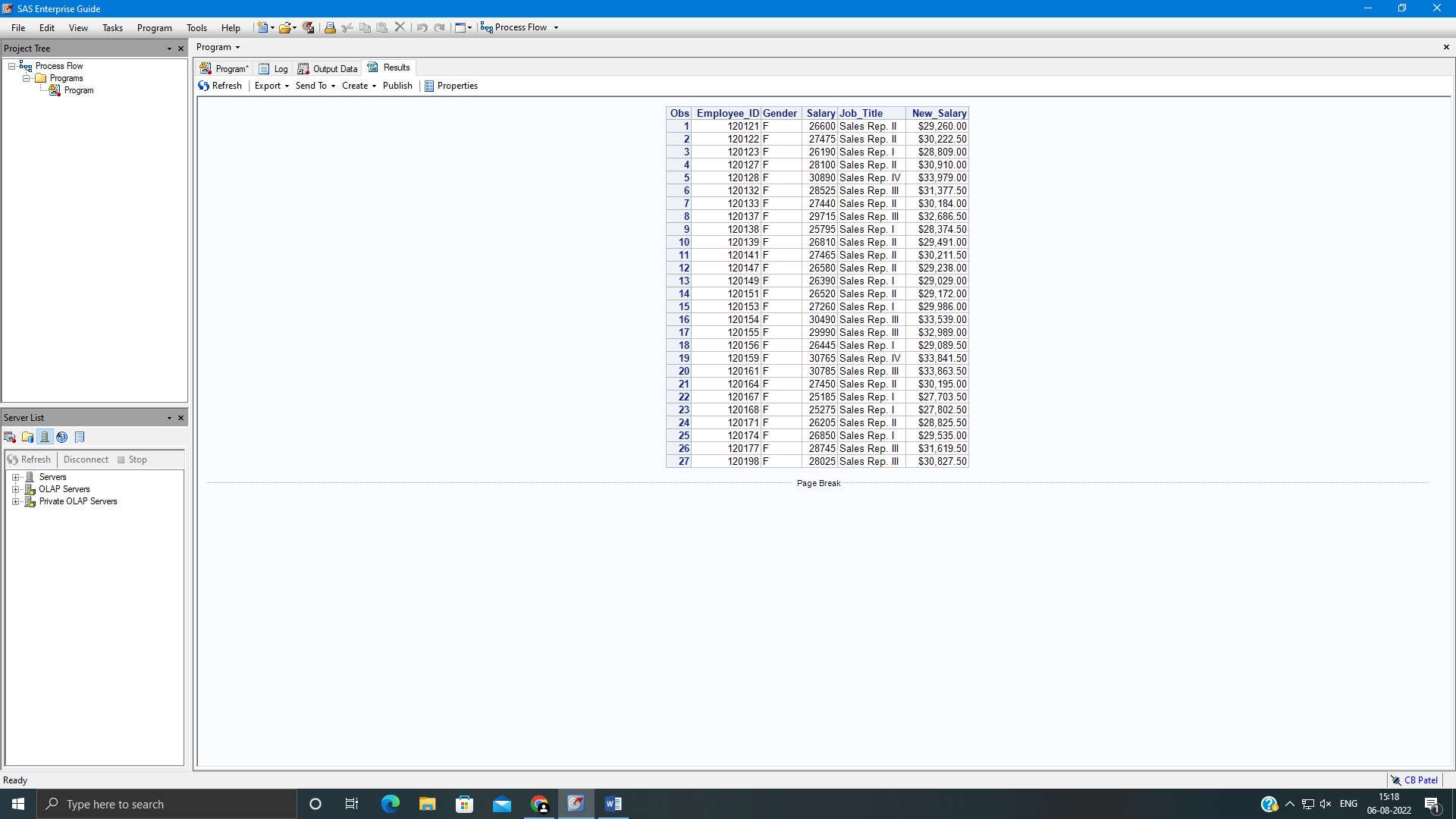
format New\_Salary dollar10.2;

keep Employee\_ID Gender Salary New\_Salary Job\_Title;

**Proc** **print** data= work.assistant;

**run**;

**Output of the Program:**



**Assignment 2:**

Write a DATA step to create work.delays. use orion.orders as input.

Create a new variable, order\_month and set it to month of order\_date (use MONTH function).

Use a WHERE statement and a subsetting IF statement to select observations as indicated below.

1. Delivery\_date values that are more than four days beyond order\_date.
2. Employee\_id values that are equal to 99999999
3. Order\_month values occurring in August

New data set should contain only

Add permanent labels and formats as shown below.

Order\_date – Date ordered, MM/DD/YYYY

Delivery\_date – Date delivered, DATE format.

Add PROC CONTENTS to display the descriptor portion of the data set.

**Code of the program:**

LIBNAME orion "d://PA\_2021\_22/Data\_sets";

**data** work.delays;

set orion.orders;

order\_month = MONTH(Order\_Date);

where Delivery\_Date > Order\_Date + **4** and Employee\_ID=**99999999**;

if order\_month =**8**;

label Order\_Date = "date ordered"

Delivery\_Date = "date delivered";

format Order\_Date mmddyy10. Delivery\_Date DATE9.;

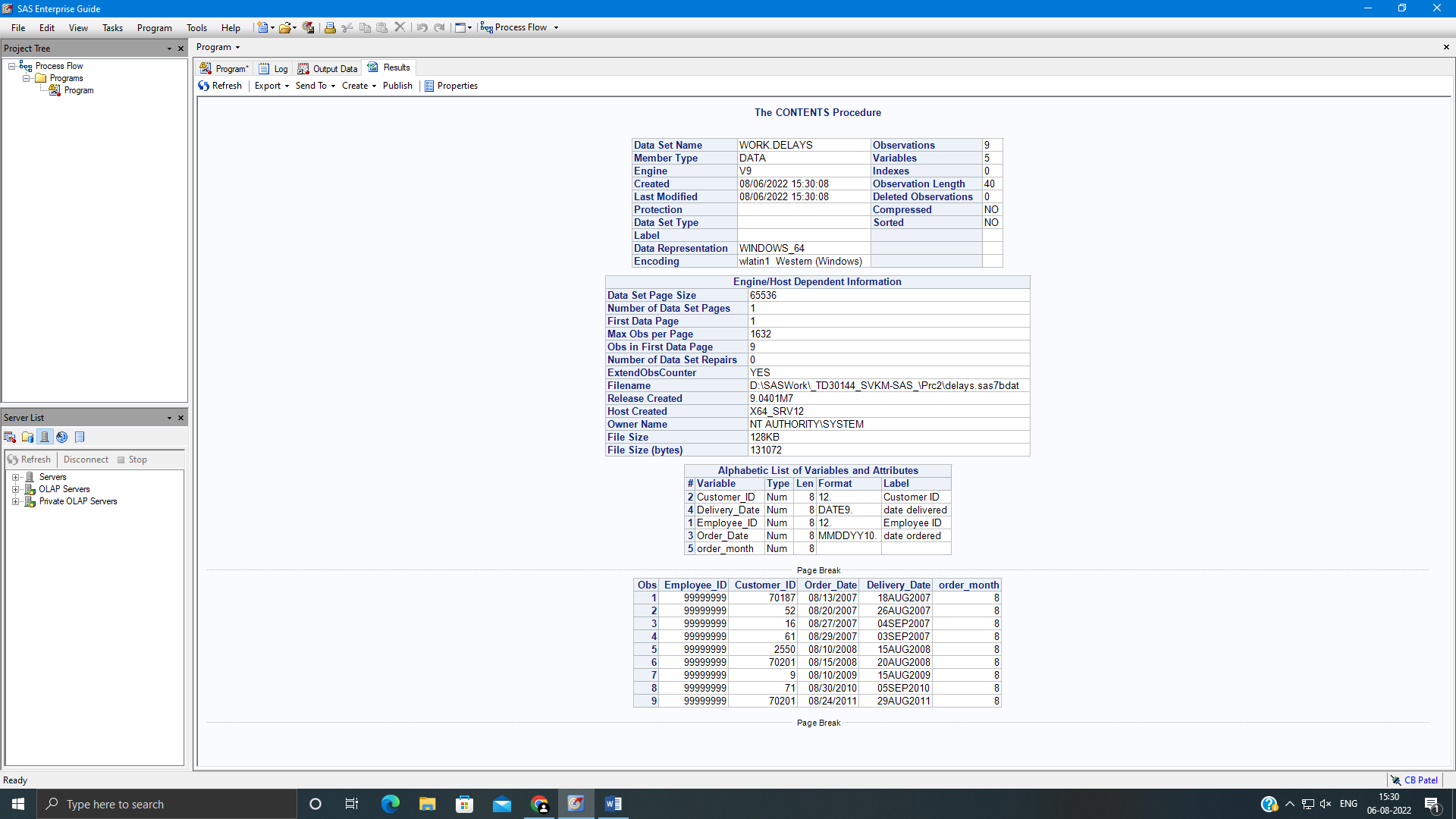
keep employee\_id customer\_id order\_date delivery\_date order\_month;

**proc** **contents** data= work.delays;

**Proc** **print** data= work.delays;

**run**;

**Output of the Program:**



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