**Practical No. 4**

**Aim**: To create user defined formats and apply the SAS defined and user defined formats on the SAS data sets.

**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 DATA step to create SAS data set from existing SAS data set.
2. Apply SAS formats with the Format statement.

(TO BE COMPLETED BY STUDENTS)

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| Date of Practical: | Date of Submission: |
| Grade: |  |

**Assignment 1:**

For the following program

**Proc print** data=orion.employee\_payroll;

**run**;

* Add a PROC PRINT step to display only Employee\_id, Salary,Birth-date and Employee\_Hire\_Date.
* Add a FORMAT statement to display Salary in a DOLLAR format(dollar12.2), Birth\_Date in the 01/31/2012 date style (mmddyy10) and Employee\_Hire\_Date in 01JAN2012 date style (date9).

**Code of the program:**

libname orion "d:\PA\_2021\_22\Data\_Sets";

**proc** **print** data=orion.employee\_payroll;

var Employee\_ID Salary Birth\_Date Employee\_Hire\_Date;

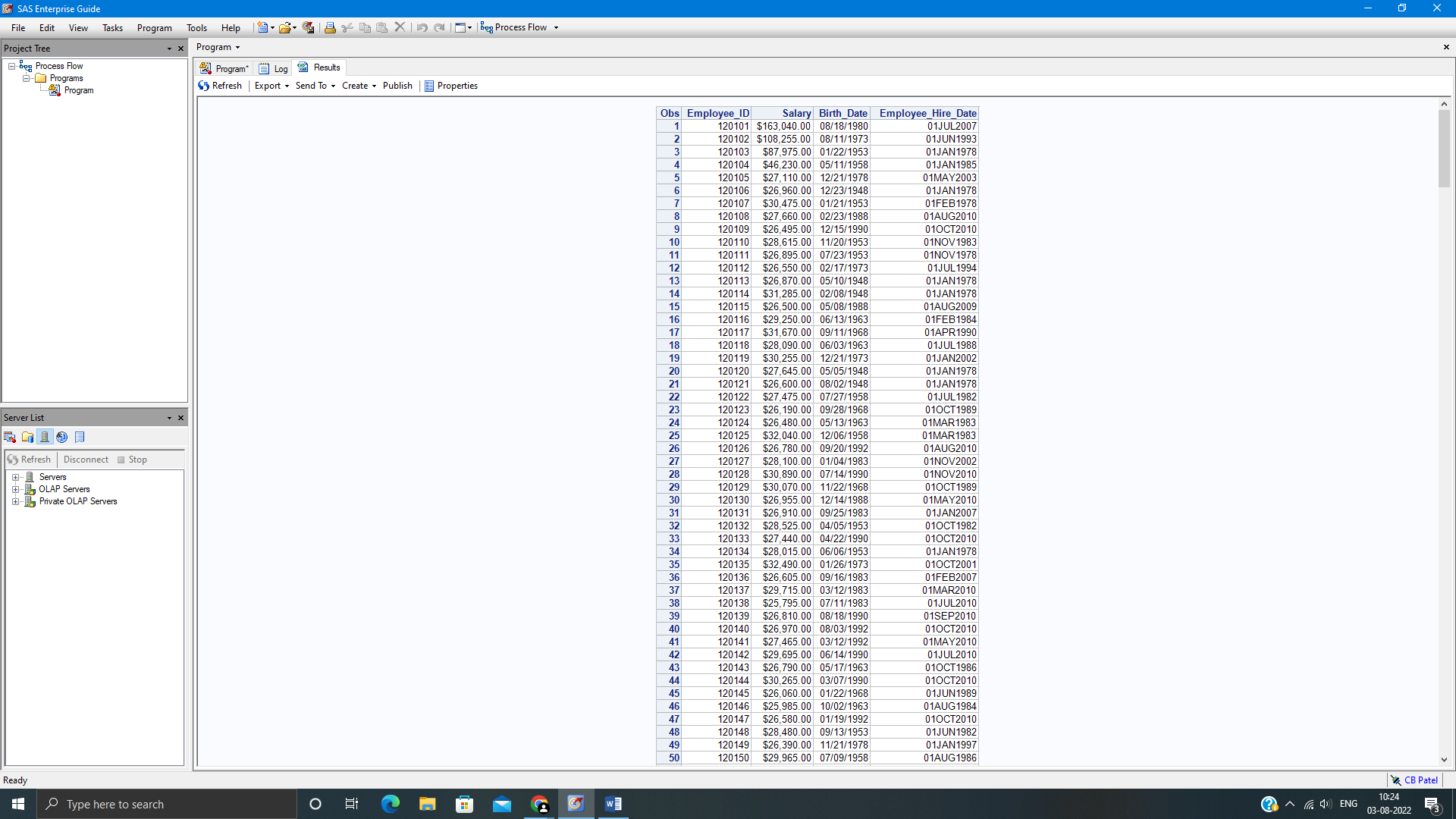
format Salary dollar12.2

Birth\_Date mmddyy10.

Employee\_Hire\_Date date9.;

**run**;

**Output of the Program:**



**Assignment 2:**

For the following program

* Add a PROC FORMAT step following the data step to create a character format named $GENDER that displays gender codes as follows.

F --- Female

M ------- Male

* In the same PROC FORMAT step, create a numeric format named MNAME that displays month numbers as follows

1--- January

2 ---- February

3 ---- March

* Add a PROC PRINT step to display the Q1Birthdays data set. Apply the 2 user defined formats to Employee\_Gender and Birth\_Month variables respectively. Include the title “ Ëmployees with Birthdays in Q1” and clear the title at the end of the program.

**Code of the program:**

libname orion "d:\PA\_2021\_22\Data\_Sets";

**data** Q1Birthdays;

set orion.employee\_payroll;

BirthMonth=month(Birth\_Date);

If BirthMonth le **3**;

**run**;

**proc** **format**;

value $gender 'F' ='FEMALE'

'M'='MALE';

**RUN**;

**PROC** **FORMAT**;

VALUE MNAME **1**= 'January'

**2** ='February'

**3**='March';

**run**;

title 'Ëmployees with Birthdays in Q1';

**proc** **print** data = Q1Birthdays;

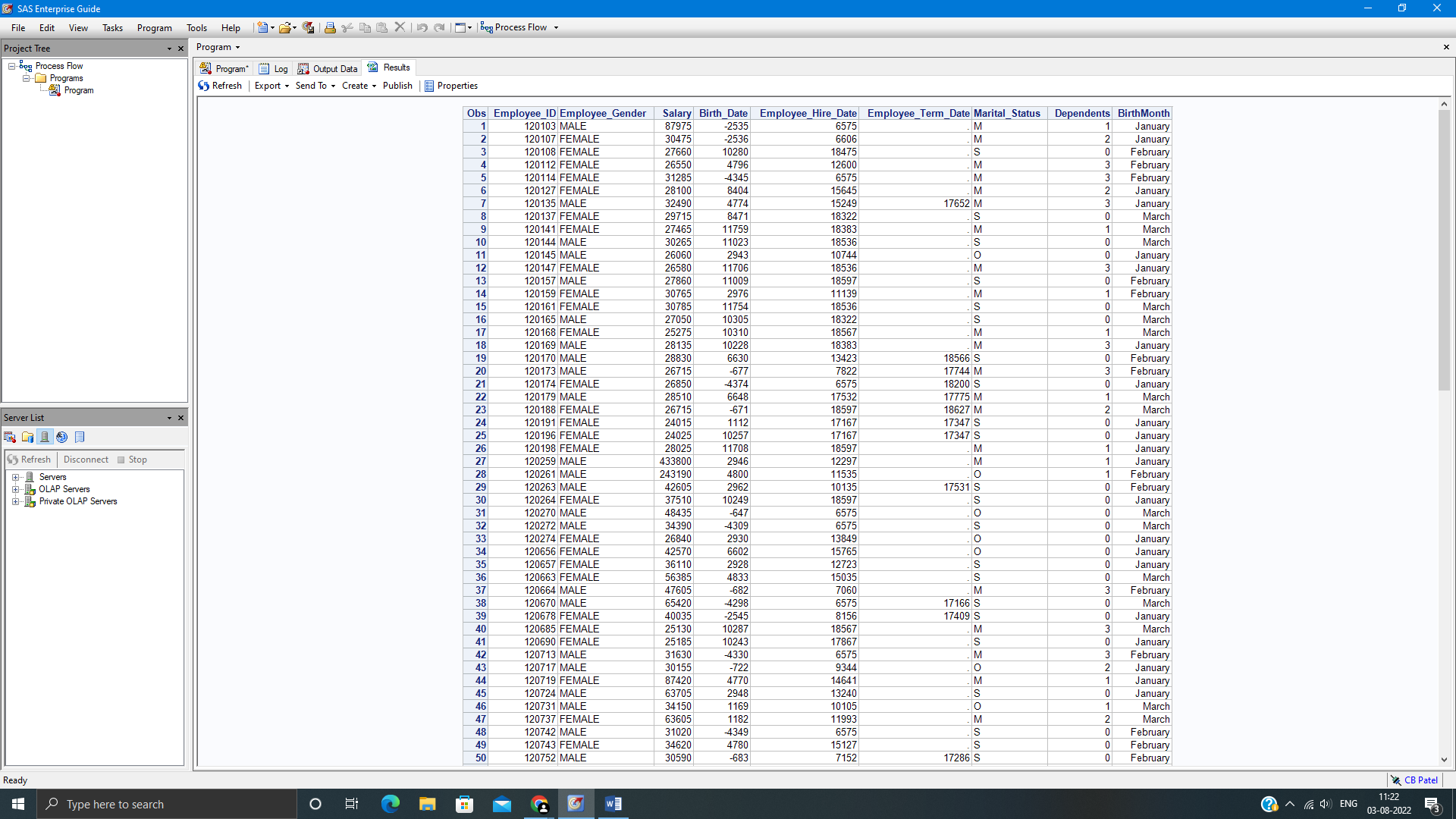
format Employee\_Gender $gender.

BirthMonth MNAME.;

title;

**run**;

**Output of the Program:**



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