Experiment-7

Student Name: Gauri Prabhakar	**UID:** 18BCS6201
Branch: 18AITAIML-2	**Section/Group:** B
Semester: 7	**Date of Performance:** 13th October, 2021
Subject Name: Advanced Database Management Lab	**Subject Code:** CSP - 434

1. Aim/Overview of the practical:

To implement Pl/SQL programming using Exception Handling.

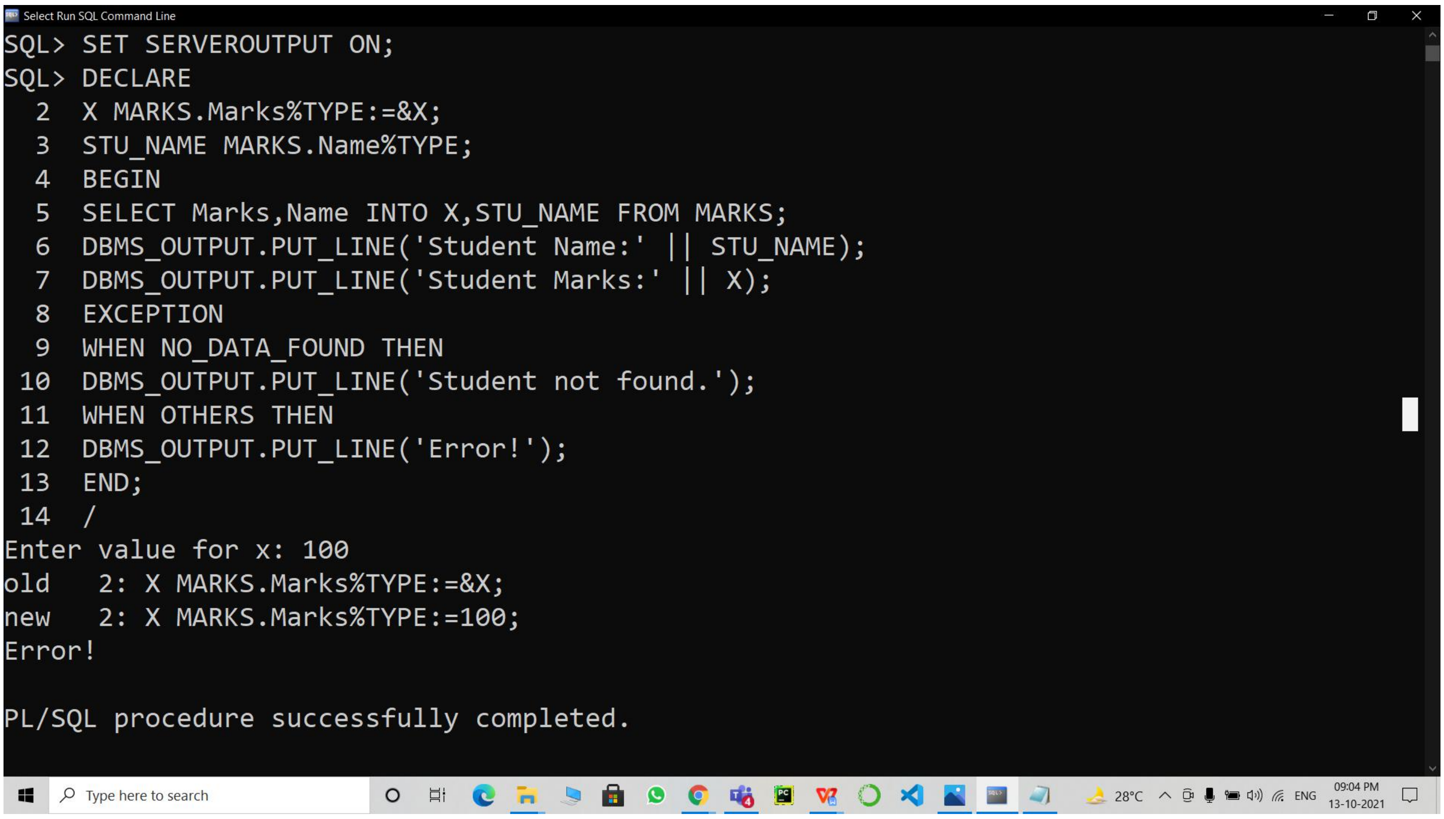
2. Task to be done:

To implement Pl/SQL programming using Exception Handling.

3. Steps to be followed:

Implementing SYSTEM-DEFINED EXCEPTION:

1.
```
SET SERVEROUTPUT ON;
DECLARE
X MARKS.Marks%TYPE:=&X;
STU_NAME MARKS.Name%TYPE;
BEGIN
SELECT Marks,Name INTO X,STU_NAME FROM MARKS;
DBMS_OUTPUT.PUT_LINE('Student Name:' || STU_NAME);
DBMS_OUTPUT.PUT_LINE('Student Marks:' || X);
EXCEPTION
WHEN NO_DATA_FOUND THEN
DBMS_OUTPUT.PUT_LINE('Student not found.');
WHEN OTHERS THEN
DBMS_OUTPUT.PUT_LINE('Error!');
END;
/
```



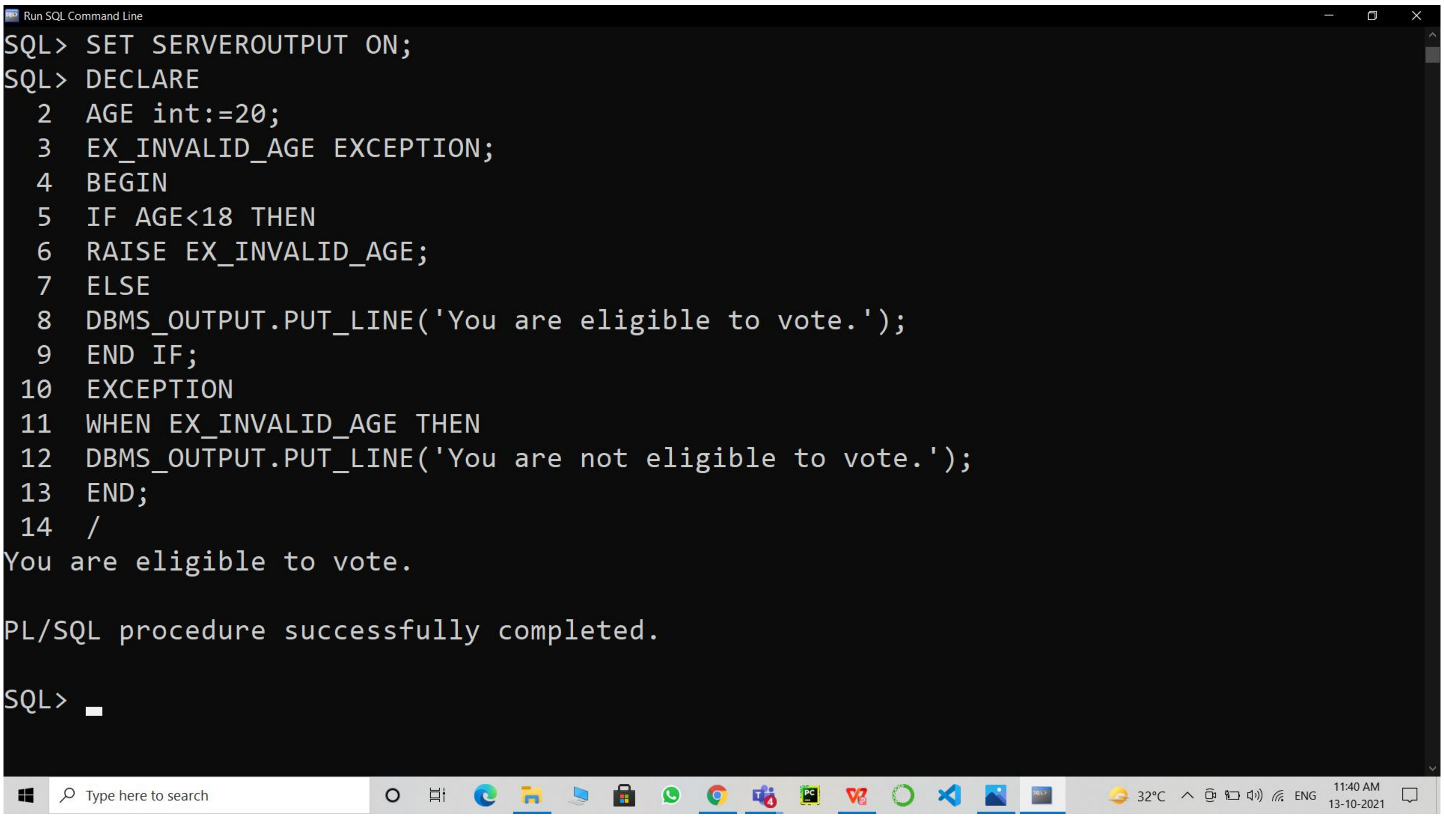
```
SQL> SET SERVEROUTPUT ON;
SQL> DECLARE
     X MARKS.Marks%TYPE:=&X;
     STU_NAME MARKS.Name%TYPE;
     BEGIN
     SELECT Marks,Name INTO X,STU_NAME FROM MARKS;
     DBMS_OUTPUT.PUT_LINE('Student Name:' || STU_NAME);
     DBMS_OUTPUT.PUT_LINE('Student Marks:' || X);
     EXCEPTION
     WHEN NO_DATA_FOUND THEN
     DBMS_OUTPUT.PUT_LINE('Student not found.');
     WHEN OTHERS THEN
     DBMS_OUTPUT.PUT_LINE('Error!');
     END;
     /
Enter value for x: 100
old   2: X MARKS.Marks%TYPE:=&X;
new   2: X MARKS.Marks%TYPE:=100;
Error!

PL/SQL procedure successfully completed.
```

Implementing USER-DEFINED EXCEPTION:

2. SET SERVEROUTPUT ON;

```
DECLARE
AGE int:=20;
EX_INVALID_AGE EXCEPTION;
BEGIN
IF AGE<18 THEN
RAISE EX_INVALID_AGE;
ELSE
DBMS_OUTPUT.PUT_LINE('You are eligible to vote.');
END IF;
EXCEPTION
WHEN EX_INVALID_AGE THEN
DBMS_OUTPUT.PUT_LINE('You are not eligible to vote.');
END;
/
```



```
SQL> SET SERVEROUTPUT ON;
SQL> DECLARE
  2  AGE int:=20;
  3  EX_INVALID_AGE EXCEPTION;
  4  BEGIN
  5  IF AGE<18 THEN
  6  RAISE EX_INVALID_AGE;
  7  ELSE
  8  DBMS_OUTPUT.PUT_LINE('You are eligible to vote.');
  9  END IF;
 10  EXCEPTION
 11  WHEN EX_INVALID_AGE THEN
 12  DBMS_OUTPUT.PUT_LINE('You are not eligible to vote.');
 13  END;
 14  /
You are eligible to vote.

PL/SQL procedure successfully completed.

SQL>
```

4. **Result/Output/Writing Summary:**

- Successfully implemented EXCEPTIONS.
- Successfully implemented SYSTEM-DEFINED EXCEPTIONS.
- Successfully implemented USER-DEFINED EXCEPTIONS.
- Successfully understood the functioning and importance of the above mentioned.

5. **Learning outcomes (What I have learnt):**

- How to implement EXCEPTIONS on SQL Command Line.
- How to implement SYSTEM-DEFINED EXCEPTIONS on SQL Command Line.
- How to implement USER-DEFINED EXCEPTIONS on SQL Command Line.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			