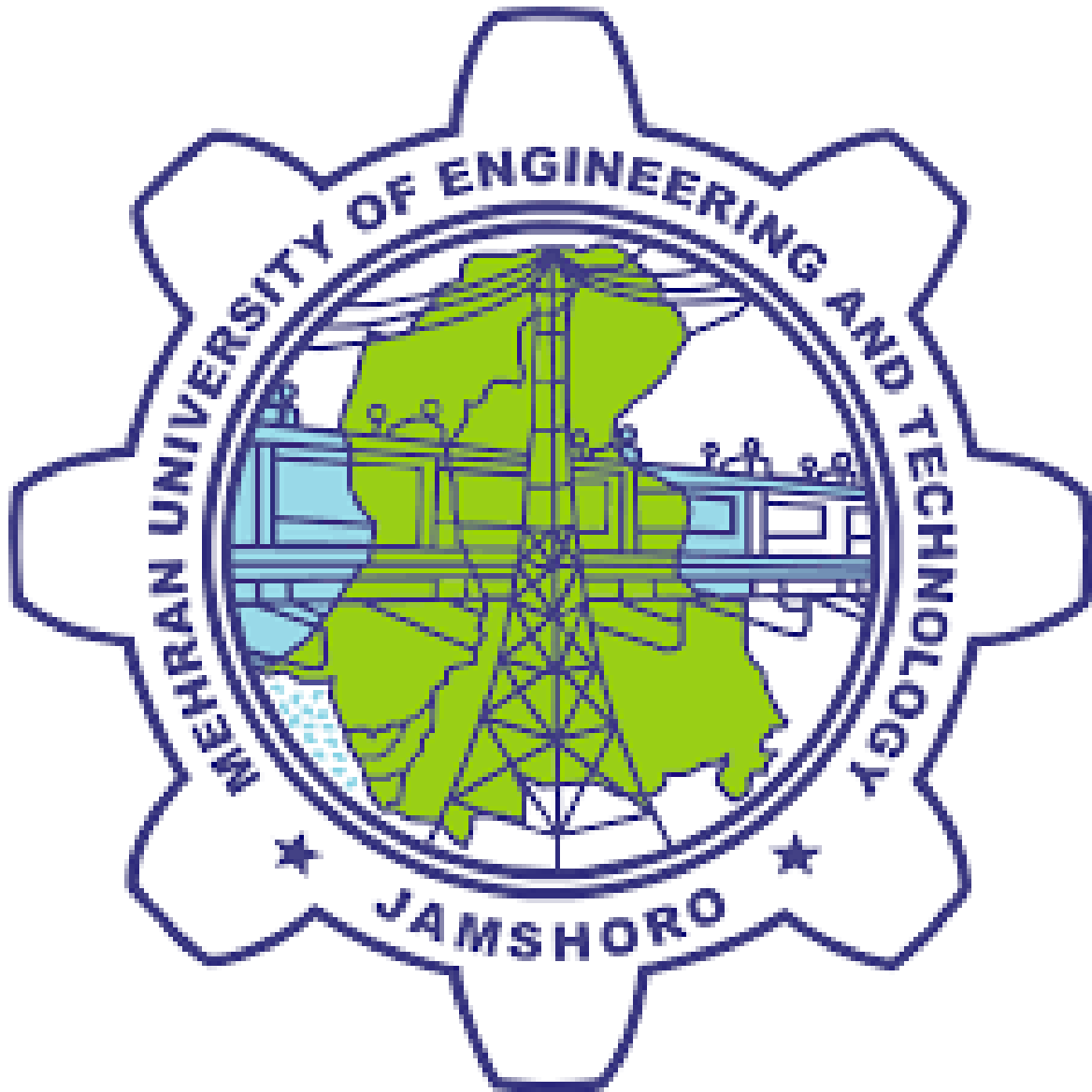


Name: ZOHAIB HASSAN SOOMRO

RollNo#: 19SW42

Subject: DBS



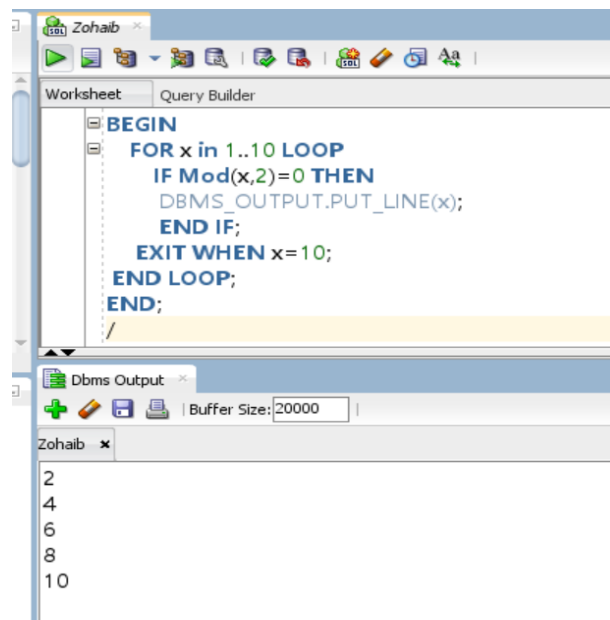
## TASK A

1. Write a PL/SQL code that prints EVEN number between 1 to 10.
2. Write a PL/SQL code that takes a digit between 1 to 9 as input from user and if the digit is  $< 5$  then displays it's a small number otherwise displays that it is a large number(make use of loop labels and loop control statements).
3. Write a PL/SQL code that displays the following output:

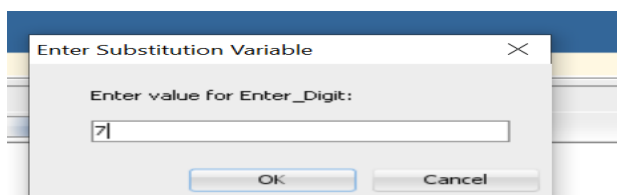
```
1
12
123
1234
.....
12345678910
```

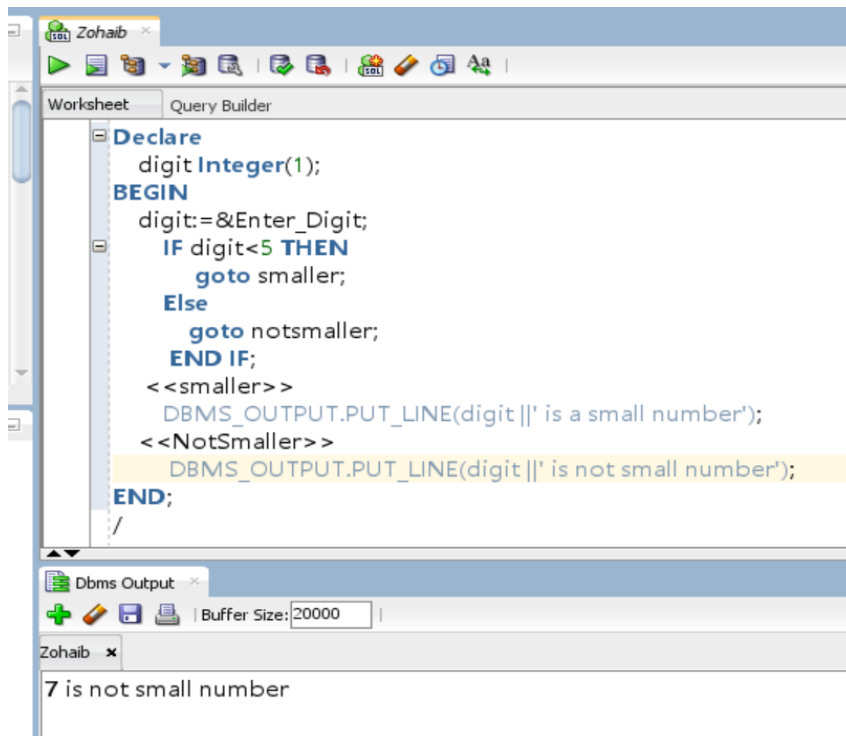
4. Write a PL/SQL that displays the reverse of your roll number.

### Task#1



### Task#2





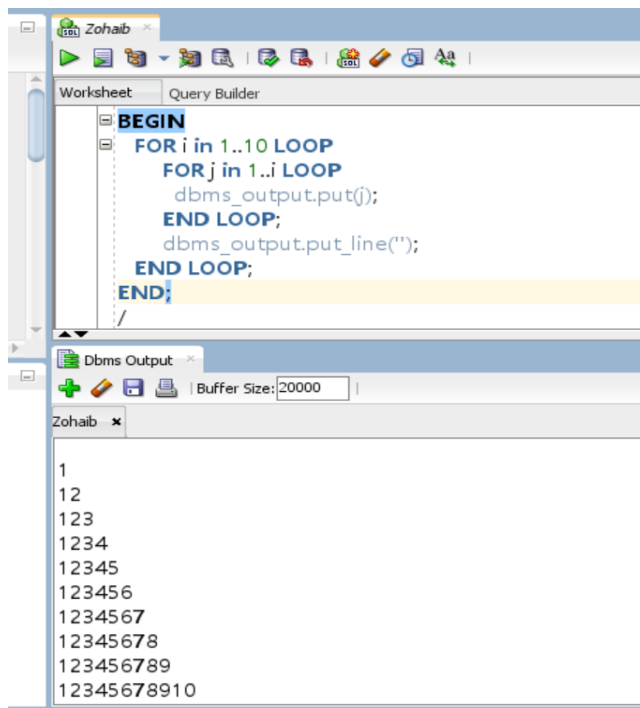
The screenshot shows the Oracle SQL Developer interface. The top toolbar includes icons for running, saving, and other database operations. The main window is titled 'Worksheet' and 'Query Builder'. The SQL script in the editor is as follows:

```
Declare
digit Integer(1);
BEGIN
digit:=&Enter_Digit;
IF digit<5 THEN
goto smaller;
Else
goto notsmaller;
END IF;
<<smaller>>
DBMS_OUTPUT.PUT_LINE(digit||' is a small number');
<<NotSmaller>>
DBMS_OUTPUT.PUT_LINE(digit||' is not small number');
END;
```

The 'Dbms Output' window at the bottom shows the output of the script:

```
7 is not small number
```

### Task#3



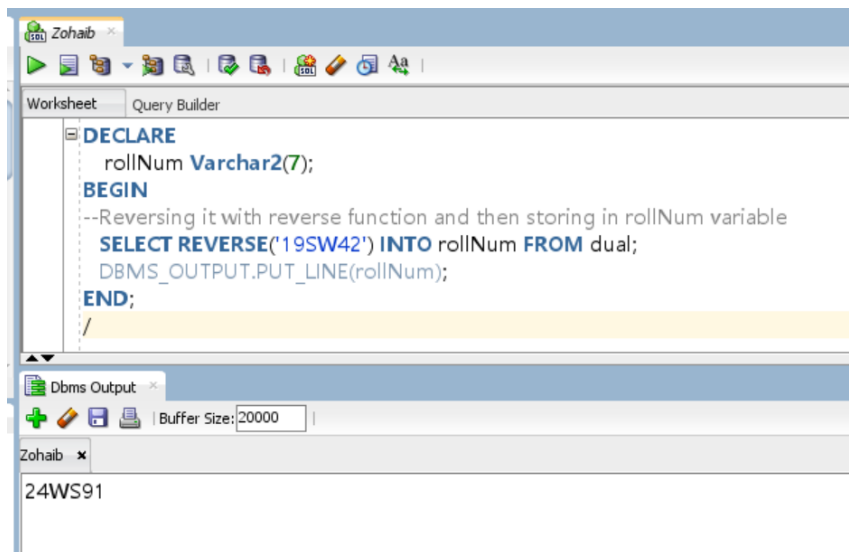
The screenshot shows the Oracle SQL Developer interface. The main window is titled 'Worksheet' and 'Query Builder'. The SQL script in the editor is as follows:

```
BEGIN
FOR i in 1..10 LOOP
FOR j in 1..i LOOP
dbms_output.put(j);
END LOOP;
dbms_output.put_line("");
END LOOP;
END;
```

The 'Dbms Output' window at the bottom shows the output of the script:

```
1
12
123
1234
12345
123456
1234567
12345678
123456789
12345678910
```

### Task4:



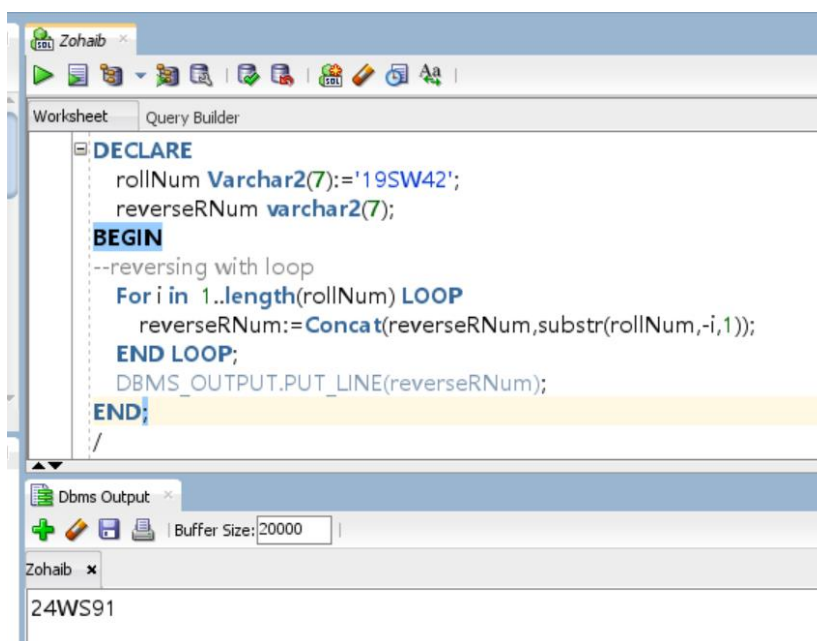
The screenshot shows the SQL Developer interface with a window titled 'Zohaib'. The 'Query Builder' tab is active, displaying the following SQL code:

```
DECLARE
    rollNum Varchar2(7);
BEGIN
    --Reversing it with reverse function and then storing in rollNum variable
    SELECT REVERSE('19SW42') INTO rollNum FROM dual;
    DBMS_OUTPUT.PUT_LINE(rollNum);
END;
```

Below the query editor, the 'Dbms Output' window is visible, showing the output of the query:

```
24WS91
```

OR



The screenshot shows the SQL Developer interface with a window titled 'Zohaib'. The 'Query Builder' tab is active, displaying the following SQL code:

```
DECLARE
    rollNum Varchar2(7):='19SW42';
    reverseRNum varchar2(7);
BEGIN
    --reversing with loop
    For i in 1..length(rollNum) LOOP
        reverseRNum:=Concat(reverseRNum,substr(rollNum,-i,1));
    END LOOP;
    DBMS_OUTPUT.PUT_LINE(reverseRNum);
END;
```

Below the query editor, the 'Dbms Output' window is visible, showing the output of the query:

```
24WS91
```