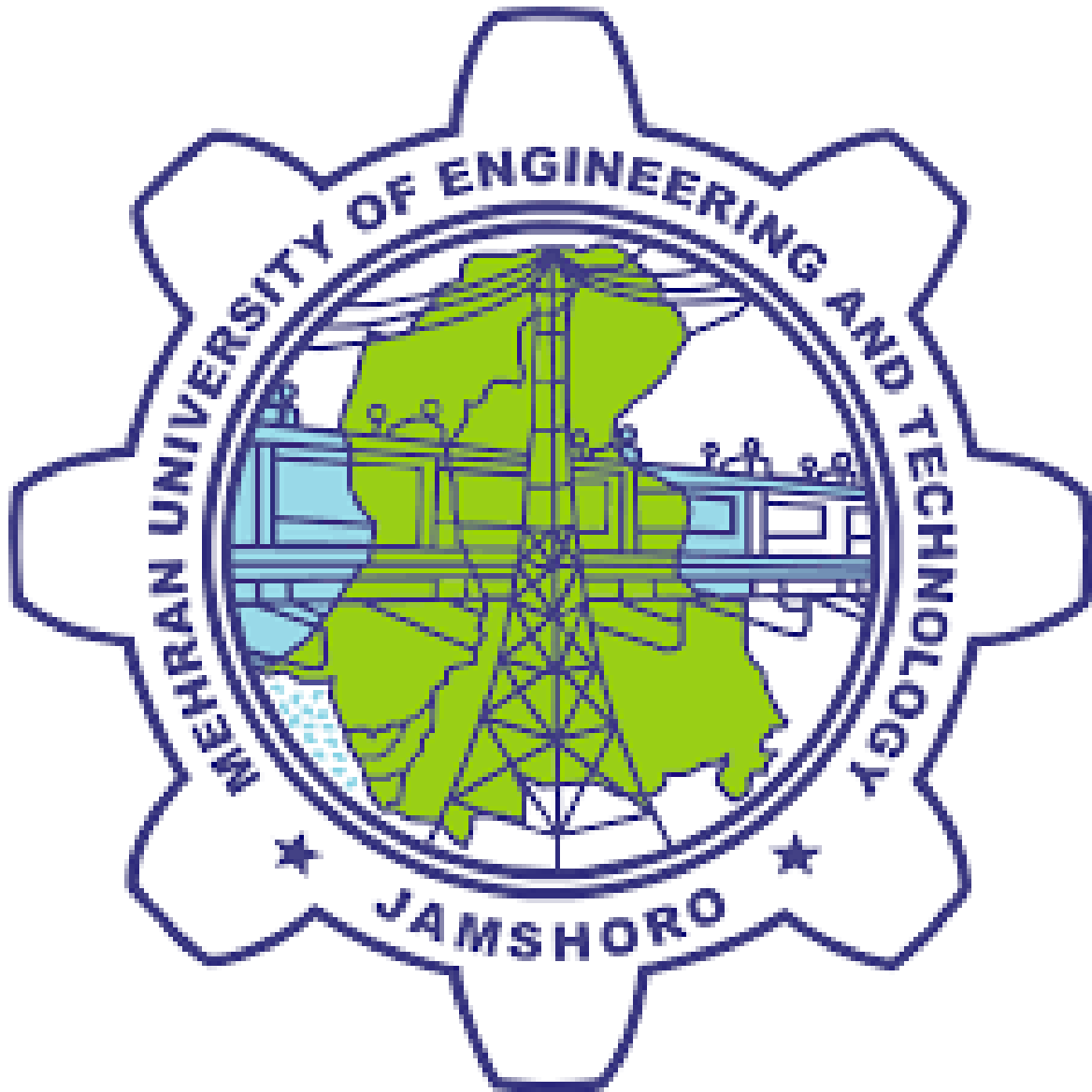Name: ZOHAIB HASSAN SOOMRO

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).

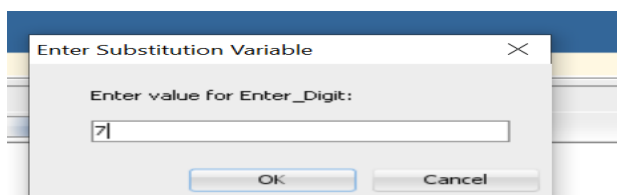3. Write a PL/SQL code that displays the following output:

   ```
   1
   12
   123
   1234
   .........
   12345678910
   ```
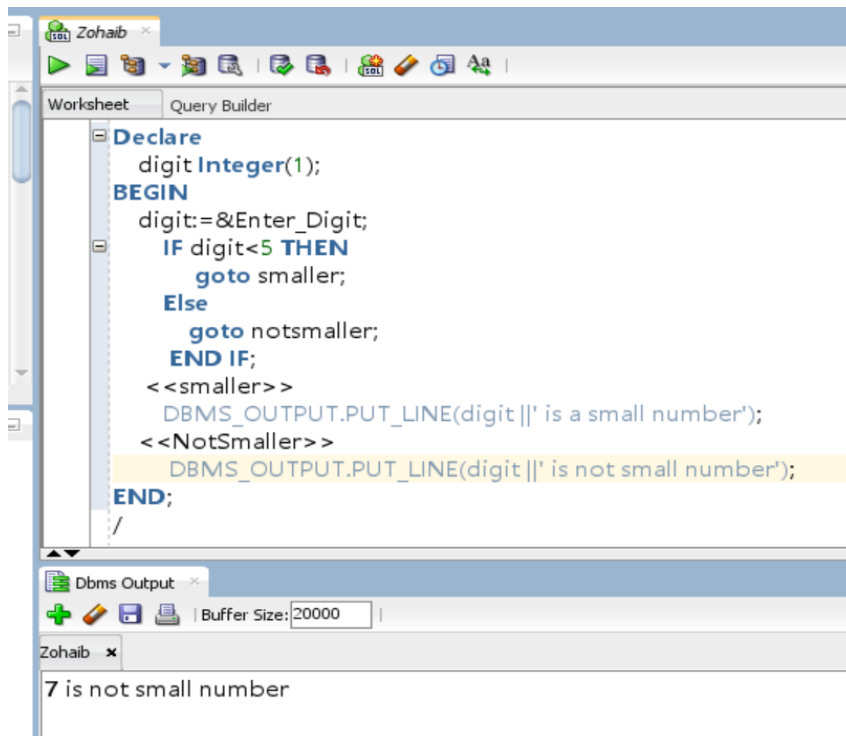
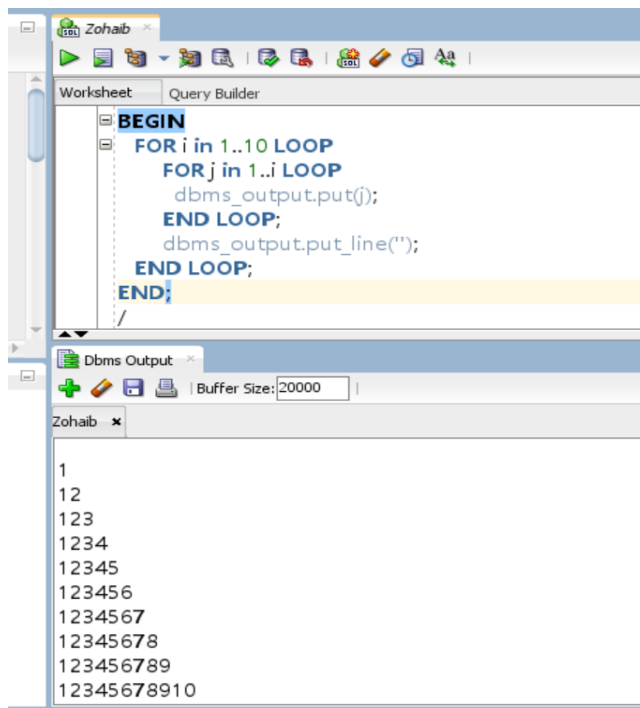4. Write a PL/SQL that displays the reverse of your roll number.

Task#1
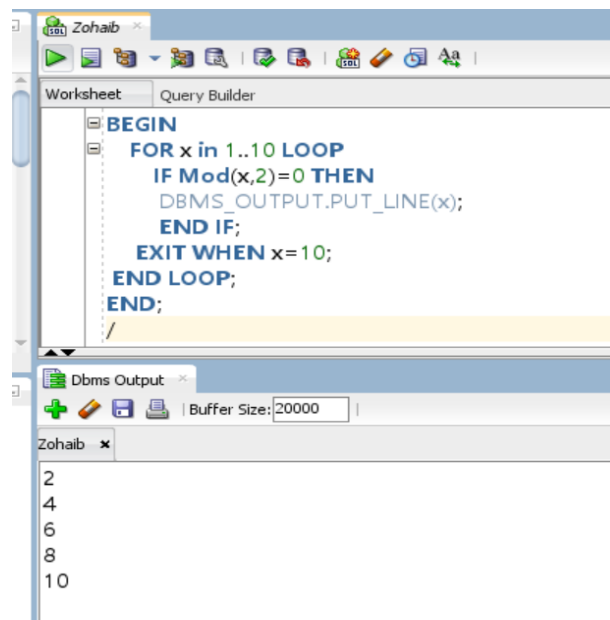
Task#2

```
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;
/
```

Dbms Output

Buffer Size: 20000

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7 is not small number

Task#3
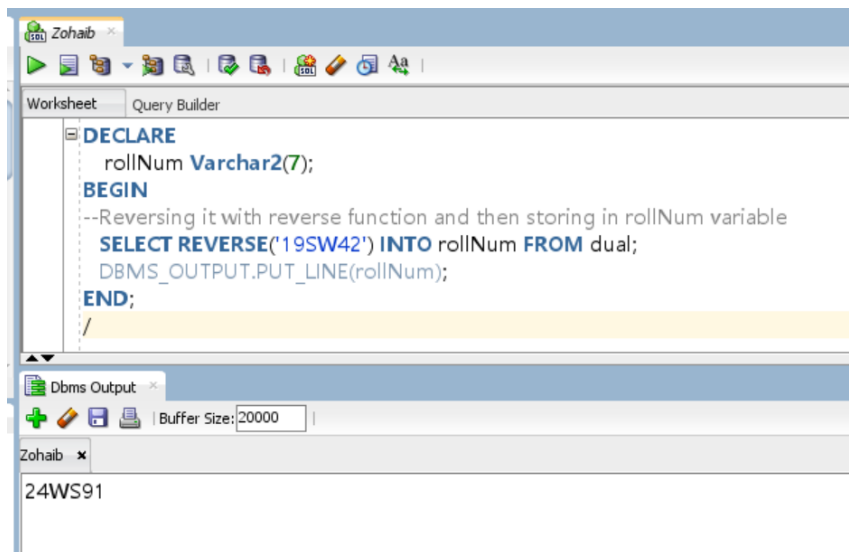
```
BEGIN
    FOR i in 1..10 LOOP
        FOR j in 1..i LOOP
            dbms_output.put(j);
        END LOOP;
        dbms_output.put_line('');
    END LOOP;
END;
/
```

Dbms Output

Buffer Size: 20000

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

Task4:
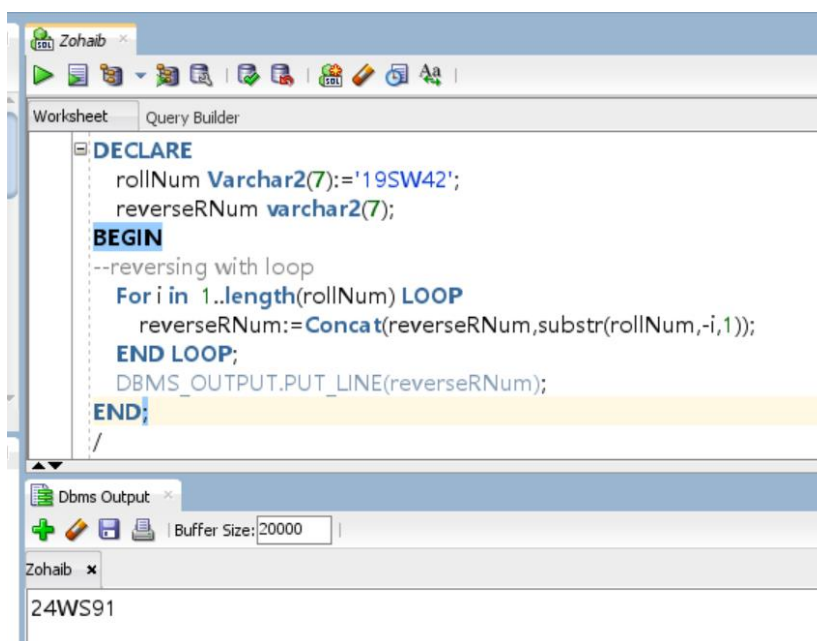
```sql
DECLARE
    rollNum Varchar2(7);
BEGIN
--Reversing it with reverse function and then storing in rollNum variable
    SELECT REVERSE('19SW42') INTO rollNum FROM dual;
    DBMS_OUTPUT.PUT_LINE(rollNum);
END;
/
```

Dbms Output

Buffer Size: 20000

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OR

```sql
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;
/
```

Dbms Output

Buffer Size: 20000

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