

**P21. WRITE A PROGRAM TO PRINT THE FOLLOWING DESIGN:**

```
~~~~~1
~~~121
~~12321
~1234321
123454321
```

```
SQL> set serveroutput on;
```

```
SQL> Declare
  i number;
  j number;
  n number;
  k number;
  m number;
Begin
  n := &num;
  for i in 1..n loop
    for j in 1..n-i loop
      dbms_output.put('~');
    end loop;
    for k in 1..i loop
      dbms_output.put(k);
    end loop;
    for k in reverse 1..i-1 loop
      dbms_output.put(k);
    end loop;
    dbms_output.put_line(' ');
  end loop;
end;
/
```

```
Enter value for num: 6
```

```
old 8: n := &num;
```

```
new 8: n := 6;
```

```
~~~~~1
~~~121
~~12321
~1234321
~123454321
12345654321
```

```
PL/SQL procedure successfully completed.
```

**P22. WRITE A PROGRAM TO PRINT THE FOLLOWING DESIGN:**

```
~~~~~1
~~~~~121
~~~~~12321
~~~~~1234321
~~~~~123454321
~~~~~12345654321
~~~~~1234567654321
~123456787654321
12345678987654321
~123456787654321
~~1234567654321
~~~12345654321
~~~~123454321
~~~~~1234321
~~~~~12321
~~~~~121
~~~~~1
```

```
Declare
i number ;
j number;
n number;
k number;
m number;
Begin
n := &n;
for i in 1..n loop
    for j in 1..n-i loop
        dbms_output.put('~');
    end loop;
    for k in 1..i loop
        dbms_output.put(k);
    end loop;
    for k in reverse 1..i-1 loop
        dbms_output.put(k);
    end loop;
dbms_output.put_line(' ');
end loop;
for i in reverse 1..n-1 loop
    for j in 1..n-i loop
        dbms_output.put('~');
    end loop;
    for k in 1..i loop
        dbms_output.put(k);
```

```
        end loop;
        for k in reverse 1..i-1 loop
            dbms_output.put(k);
        end loop;
    dbms_output.put_line(' ');
end loop;
end;
```

Enter value for n: 5

old 8: n:=&n;

new 8: n:=5;

```
~~~~~1
~~~~~121
~~~~~12321
~~~~~1234321
~~~~~123454321
~~~12345654321
~~1234567654321
~123456787654321
12345678987654321
~123456787654321
~~1234567654321
~~~12345654321
~~~~123454321
~~~~~1234321
~~~~~12321
~~~~~121
~~~~~1
```

PL/SQL procedure successfully completed.

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