**Simple programs using loop ,while and for iterative control statement.**

**loop**

declare

i number;

begin

i:=1;

loop

dbms\_output.put\_line(i);

i:=i+1;

exit when i>10;

end loop;

end;

**output:**

0

1

2

3

4

5

6

7

8

9

10

Statement processed.

**Using while**

declare

i number;

begin

i:=1;

while(i<=10)loop

dbms\_output.put\_line(i);

i:=i+1;

end loop;

end;

**output:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1  2  3  4  5  6  7  8  9  10  Statement processed.  0.00 seconds  **Using for**   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

declare

i number;

begin

for i in 1..10

loop

dbms\_output.put\_line(i);

end loop;

end;

**output:**

1

2

3

4

5

6

7

8

9

10

Statement processed.

0.00 seconds

declare

i number;

j number;

c number;

**Generate prime number upto 100**

begin

i:=1;

for i in 1..100

loop

c:=0;

j:=1;

while(j<=i)

loop

if(mod(i,j)=0)then

c:=c+1;

end if;

j:=j+1;

end loop;

if(c=2)then

dbms\_output.put\_line(i);

end if;

end loop;

end;

**output:**

2

3

5

7

11

13

17

19

23

29

31

37

41

43

47

53

59

61

67

71

73

79

83

89

97

Statement processed.

0.00 seconds