

Exercise 7**Loops & Exceptions**

Write a Program using loop, while loops, for loops along with error handling and user defined exceptions.

To generate first 10 natural numbers using loop, while and for.

Program:

```
/* using loop statement */  
  
declare  
I number;  
begin  
    I:=1;  
loop  
    dbms_output.put_line(I);  
    I:=I+1;  
    exit when I>10;  
end loop;  
end;
```

Expected Output:

```
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

Program:

```
/* using while */
declare
I number;
begin
    I:=1;
    while (I<=10)
    loop
        dbms_output.put_line (I);
        I:=I+1;
    end loop;
end;
```

Expected Output:

```
1
2
3
4
5
6
7
8
9
10
```

Program:

```
/* using for loop*/

Begin
For I in 1...10
loop
    Dbms_output.put_line (I);
End loop;
End;
```

Expected Output:

1
2
3
4
5
6
7
8
9
10

Program using predefined exceptions.**Program:**

```
declare
emp_number employee.emp_number%type=&number;
name employee.emp_name%type;
begin
select emp_name into name from employee
where emp_number=emp_number;
exception when NO_DATA_FOUND then
dbms_output.put_line('no such employee');
end;
```

Expected Output:

number: 1001
sureash