

## For Loop Syntax

```
FOR loop_counter IN initial_value .. final_value LOOP  
    executable statements;  
  
END LOOP;
```

Q. Write a Program to Print numbers from 1 to 10 using For Loop

```
declare  
  
begin  
    FOR i IN 1 .. 10 Loop  
        dbms_output.put_line(i);  
  
    End Loop;  
  
end;
```

Some Important Points about For Loop

**In For Loop-** Loop Counter values is incremented or decremented by system internally, being a programmer we are not responsible for that.

Condition checking for the Loop counter is also take care by system. being a programmer we are not responsible.

Write a program to Print numbers from 10 to 1

```
declare
begin
  For i IN REVERSE 1..10 Loop
    dbms_output.put_line('value of i is ' || i);
  End Loop;
end;
```

Basic Loop, While Loop and For Loop Syntax

Basic Loop Form 1

```
LOOP
  executable statements;
  EXIT WHEN condition;
END LOOP;
```

Basic Loop Form 1

```
LOOP
  EXIT WHEN condition;
  executable statements;
END LOOP;
```

While condition Loop

```
Executable statement;
loop counter increment/decrement;
```

End Loop;

Body Of Loop

**FOR** loop\_counter **IN** initial\_value .. final\_value **LOOP**

executable statements;

**END LOOP;**

## How to write PL/SQL stored Procedure

### Syntax To Create A Procedure

```
CREATE [OR REPLACE] PROCEDURE procedure_name
    [(parameter_name [IN | OUT | IN OUT] type [, ...])]
{IS | AS}
    [declaration_section]
BEGIN
    executable_section
[EXCEPTION
    exception_section]
END procedure_name;
```

parameter\_name means variable name

IN -> input parameter

OUT -> out put parameter

IN OUT -> input and out put the same  
parameter

type -> data type

Q. Write a Procedure to Print "Hello" Word on Console

```
Create Procedure PrintHello  
IS  
Begin  
    dbms_output.put_line('Hello');  
End PrintHello;
```

Q. How to Call a Procedure

```
exec procedure_name;
```

Or

```
Execute procedure_name;
```

```
execute PrintHello;
```

OR

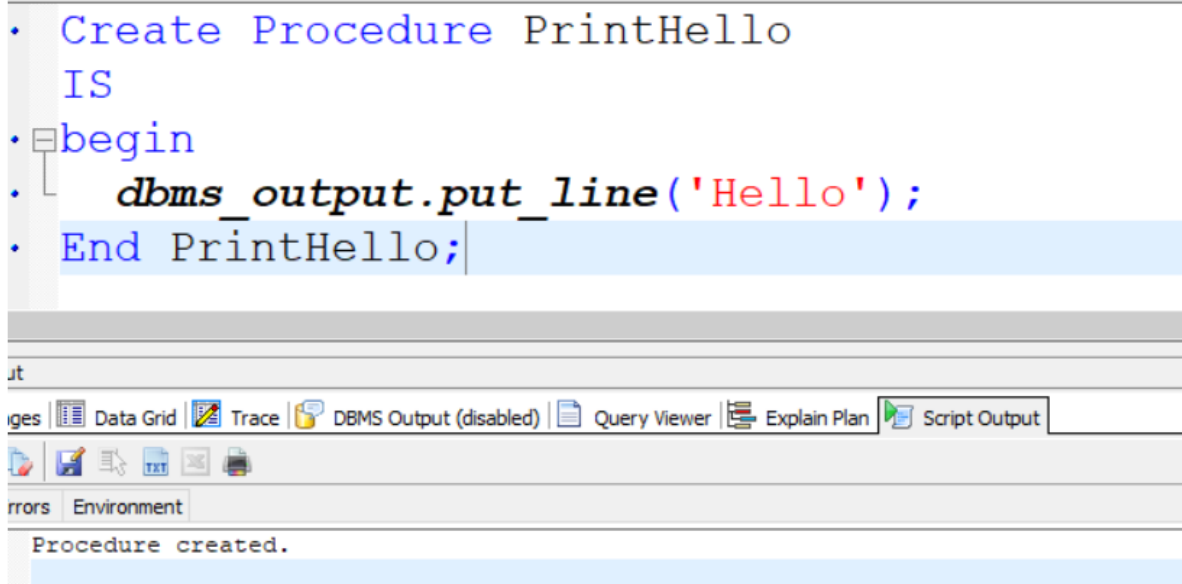
```
begin  
    execute procedure_name;  
end;
```

```
begin  
    execute PrintHello;  
End;
```

If we want to delete a procedure

```
drop procedure procedure_name;
```

```
drop procedure PrintHello;
```



Write a Procedure to Print Hello Message 10 times on console

```
Create Procedure PrintHello10Times
IS
begin
    For i IN 1..10 Loop
        dbms_output.put_line('Hello');
    End Loop;
End PrintHello10Times;
```

Q. Write a procedure to Print "Hello" word as per use input

```
Create Procedure PrintHelloAsPerInput(n1 IN number)
IS
    i number;
Begin
    i:=n1;
    While i>0 Loop
        dbms_output.put_line('Hello');
        i:=i-1;
    End Loop;
End PrintHelloAsPerInput;

execute PrintHelloAsPerInput(10)
```

### Assignment Questions

- Q. Write a Procedure which accept one number and print that number on console
- Q. Write a Procedure which accept two numbers and print that two numbers on console
- Q. Write a procedure to accept two numbers and print addition of two numbers on console
- Q. Write a Procedure to accept two numbers and print subtraction of two numbers on console
- Q. Write a procedure to accept employee number print employee details on console