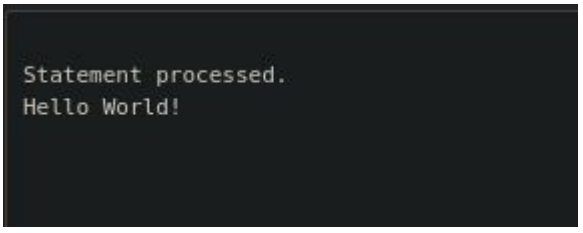
PL SQL Assignment 1

Roll No: U18CO021

1) Execute a PL/SQL block to print "Hello World"

```
declare
  message varchar2(20) := 'Hello World!';
begin
  dbms_output.put_line(message);
end;
/
```



2) Print even numbers using for loop between a range specified by the user at run time.

```
declare
  l number := 1;
  r number := 10;

begin
  while l <= r loop
    if mod(l, 2) = 0
    then
      dbms_output.put_line(l);
    end if;
    l := l + 1;
  end loop;
end;
/
```

```
Statement processed.
2
4
6
8
10
```

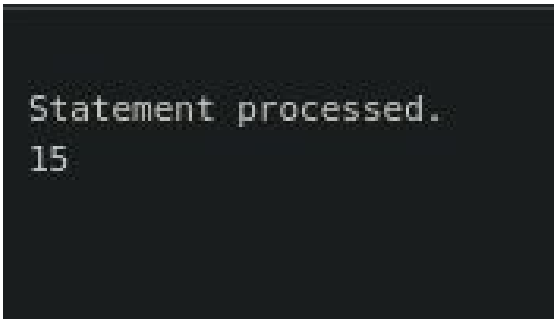
3) Reverse a given number.

```
declare
  num NUMBER := 12345;
  rev NUMBER := 0;

begin
  while num > 0 loop
    rev := (rev*10) + mod(num, 10);
    num := floor(num / 10);
  end loop;

  dbms_output.put_line(rev);
end;
/
```

```
Statement processed.
54321
```

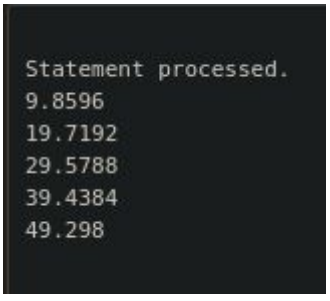
4) Find the sum of digits of a number

```
declare
  num number := 12345;
  s number := 0;
begin
  while num > 0 loop
    s := s + mod(num, 10);
    num := floor(num / 10);
  end loop;
  dbms_output.put_line(s);
end;
/
```



5) Using a FOR loop with PL/SQL; display the area of the circle with radius ranging from 1 to 5(only integers.)

```
declare
  a number;

begin
  for a in 1..5 loop
    dbms_output.put_line(a * 3.14 * 3.14);
  end loop;
end;
/
```



6) Find the greatest among three number using nested if.

```
declare
  a number := 4;
  b number := 1;
  c number := 5;

begin
  if a > b then
    if a > c then
      dbms_output.put_line(a);
    else
      dbms_output.put_line(c);
    end if;
```

```
  else
    if b > c then
      dbms_output.put_line(b);
    else
      dbms_output.put_line(c);
    end if;
  end if;
end;
/
```