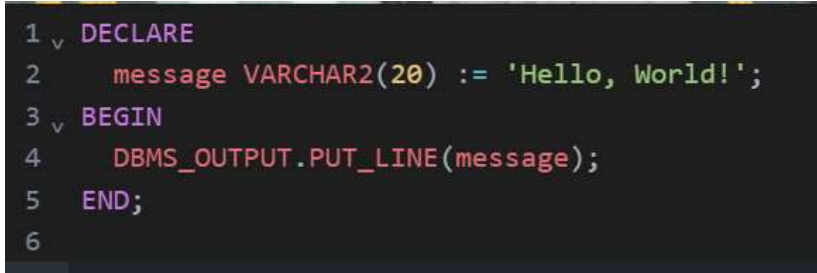


## CSE2007 (DBMS) Lab-10

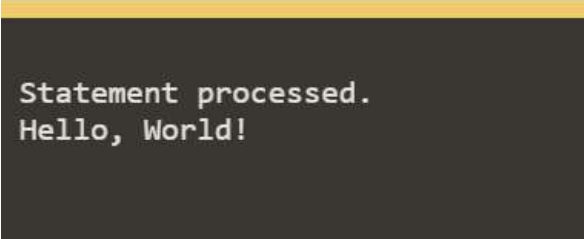
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### Q1] Hello World Program in PL/SQL

```
DECLARE
    message VARCHAR2(20) := 'Hello, World!';
BEGIN
    DBMS_OUTPUT.PUT_LINE(message);
END;
```



```
1 v DECLARE
2     message VARCHAR2(20) := 'Hello, World!';
3 v BEGIN
4     DBMS_OUTPUT.PUT_LINE(message);
5 END;
6
```



```
Statement processed.
Hello, World!
```

### Q2] PL/SQL Program To Add Two Numbers

```
declare
x number(5);
y number(5);
z number(7);
begin
x:=10;
y:=20;
z:=x+y;
dbms_output.put_line('Sum is '||z);
end;
/
```

```

1  declare
2  x number(5);
3  y number(5);
4  z number(7);
5  begin
6  x:=10;
7  y:=20;
8  z:=x+y;
9  dbms_output.put_line('Sum is '||z);
10 end;
11 /

```

```

Statement processed.
Sum is 30

```

### Q3] PL/SQL Program To Add Two Numbers

```

DECLARE
    num NUMBER := 13;
    is_prime BOOLEAN := TRUE;
BEGIN
    IF num <= 1 THEN
        is_prime := FALSE;
    ELSE
        FOR i IN 2..num-1 LOOP
            IF num mod i = 0 THEN
                is_prime := FALSE;
                EXIT;
            END IF;
        END LOOP;
    END IF;
    IF is_prime THEN
        DBMS_OUTPUT.PUT_LINE(num || ' is a prime number');
    ELSE
        DBMS_OUTPUT.PUT_LINE(num || ' is not a prime number');
    END IF;
END;

```

```

1  DECLARE
2      num NUMBER := 13;
3      is_prime BOOLEAN := TRUE;
4  BEGIN
5      IF num <= 1 THEN
6          is_prime := FALSE;
7      ELSE
8          FOR i IN 2..num-1 LOOP
9              IF num mod i = 0 THEN
10                 is_prime := FALSE;
11                 EXIT;
12             END IF;
13         END LOOP;
14     END IF;
15     IF is_prime THEN
16         DBMS_OUTPUT.PUT_LINE(num || ' is a prime number');
17     ELSE
18         DBMS_OUTPUT.PUT_LINE(num || ' is not a prime number');
19     END IF;
20 END;
21

```

```

Statement processed.
Sum is 30

```

#### Q4] PL/SQL Program to Find Factorial of a Number

```

declare
num int:=5;
res int;
function fact(num IN int)
return int
AS
f int;
begin
f:=1;
for i in 1..num loop
    f:=f*i;

```

```
end loop;
return f;
end fact;
begin
dbms_output.put_line('FINDING FACTORIAL OF:' || num);
res:=fact(num);
dbms_output.put_line('FACTORIAL =' || res);
end;
```

```
1  declare
2    num int:=5;
3    res int;
4  function fact(num IN int)
5    return int
6  AS
7    f int;
8  begin
9    f:=1;
10   for i in 1..num loop
11     f:=f*i;
12   end loop;
13   return f;
14 end fact;
15 begin
16   dbms_output.put_line
17     ('FINDING FACTORIAL OF:' || num);
18   res:=fact(num);
19   dbms_output.put_line
20     ('FACTORIAL =' || res);
21 end;
22 |
```

```
Statement processed.
FINDING FACTORIAL OF:5
FACTORIAL =120
```

### Q5] PL/SQL Program to Print Table of a Number

```
DECLARE
    num CONSTANT INTEGER := 5;
BEGIN
    -- Print the multiplication table
    FOR i IN 1..10 LOOP
        DBMS_OUTPUT.PUT_LINE(num || ' x ' || i || ' = ' ||
num*i);
    END LOOP;
END;
```

```
1  DECLARE
2      num CONSTANT INTEGER := 5;
3  BEGIN
4      -- Print the multiplication table
5      FOR i IN 1..10 LOOP
6          DBMS_OUTPUT.PUT_LINE(num || ' x ' || i || ' = ' || num*i);
7      END LOOP;
8  END;
```

Statement processed.

```
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```