

MSC (CS) IInd Sem

Expt. No. _____

PL/SQL

Date: _____

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1. Write a program to print simple message?

Ans.

Type 1- Begin

```
dbms_output.put_line ('Hello world');  
end;
```

Type 2- Declare

```
message varchar2(20) := 'Hello, world';  
Begin  
dbms_output.put_line (message);  
end;
```

!

② PL/SQL program to Add two numbers. ?

Ans. Declare

```
var1 integer;
```

```
var2 integer;
```

```
var3 integer;
```

Begin

```
var1 = 8 var1;
```

```
var2 = 8 var2;
```

```
var3 = var1 + var2;
```

```
dbms_output.put_line (var3);
```

```
end;
```

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Teacher's Signature :

③ PL SQL program to find Greatest of three num.

Ans. declare.

a number = 10;

b number = 12;

c number = 5;

begin

dbms_output.put_line ('a = ' || a || ' b = ' || b ||

c = ' || c);

if a > b AND a > c

then

dbms_output.put_line ('a is greatest');

else

if b > a AND b > c

then

dbms_output.put_line ('b is greatest');

else

dbms_output.put_line ('c is greatest');

end if;

end if;

end;

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④ PL/SQL Program To Swap two no. ?

Ans

```
Declare
    a number;
    b number;
    Temp number;
begin
    a := 5;
    b := 10;
    dbms_output.put_line ('before swapping');
    dbms_output.put_line ('a = ' || a || ' b = ' || b);
    Temp = a;
    a = b;
    b = Temp;
    dbms_output.put_line ('after swapping');
    dbms_output.put_line ('a = ' || a || ' b = ' || b);
end;
/
```

⑤ PL/SQL program to check number is odd or even ?

```
Declare
    n number := 0;
begin
    if mod (n, 2) = 0
    then
        dbms_output.put_line ('no. is even');
    else
        dbms_output.put_line ('no. is odd');
    end if;
end;
```

⑥ PL/SQL program to print table of no. ?

```
Declare
  n number;
  i number;
begin
  n := &n;
  for i in 1...10
  loop
    dbms_output.put_line('n || ' x ' || i || '= ' || n * i);
  end loop;
end;
```

⑦ PL/SQL program to find factorial of a number

```
Declare
  n number;
  fac number := 1;
  i number;
begin
  n := &n;
  for i in 1...n
  loop
    fac = fac * i;
  end loop;
  dbms_output.put_line('factorial = ' || fac);
end;
```



⑧ PL/SQL Program to Reverse a string

Ans

Declare

str1 varchar2(50) := 'Astr';

str2 varchar2(50);

len number;

i number;

begin

len := length(str1);

for i in reverse 1 .. len

loop

str2 := str2 || substr(str1, i, 1);

end loop;

dbms_output.put_line('Reverse of string is: ' || str2);

end;

↑

⑨ PL/SQL Program for Prime number;

Declare

n number;

i number;

flag number;

begin

i := 2;

flag := 1;

n := n;

for i in 2 .. n/2

loop

Teacher's Signature:

```

if mod(n,i) = 0
then
  flag = 0;
  exit;
end if;
end loop;
if flag = 1
then
  dbms_output.put_line('prime');
else
  dbms_output.put_line('not prime');
end if;
end;

```

10) PL/SQL program for fibonacci series:

```

Ans. Declare
  first no. = 0;
  second no = 1;
  third no. = ;
  n number = 10;
  i number;
begin
  dbms_output.put_line('fibonacci series is:');
  dbms_output.put_line(first);
  dbms_output.put_line(second);
  for i in 2..n
  loop
    third = first + second;
    first = second;
    second = third;
    dbms_output.put_line(third);
  end loop;
end;

```