Experiment 2.2

Name: XYZ

UID: 21BCS2211

Section: 222-A
Semester: 3
Subject: Database Management System (21CSH-214)

Aim:

1. >Write a program in PL/SQL to print factorial of a number.

2. >Write a program in PL/SQL to check whether a number is prime or not using goto statement with for loop.

Code:

```
/* XYZ
   21BCS1111
  */ declare n
number; fac
number:=1; i
number;

 begin n:=5;
for i in 1..n
 loop
 fac:=fac*i;
 end loop;

 dbms_output.put_line('factorial='||fac); end; /
```

```
/* Vishesh Pratap Singh
21BCS2233
*/
declare
n number;
fac number:=1;
i number;

begin
n:=5;

for i in 1..n
loop
fac:=fac*i;
end loop;

dbms_output.put_line('factorial='||fac);
end;
/
```

2.>

```
/* XYZ
21BCS1222
*/ declare n
number; flag
number:=1; i
number;

begin n:=34; for i in
2..n/2 loop if n mod
i =0 then flag:=0;
exit; end if; end
loop; if flag=1 then
dbms_output.put_line(n|| ' is prime');
else dbms_output.put_line(n ||' is not prime');

end if;

end; /
```

```
/* Vishesh Pratap Singh
21BCS2233
*/
declare
n number;
flag number:=1;
i number;

begin n:=34;
for i in 2..n/2
loop
if n mod i =0 then
flag:=0;
exit;
end if;
end loop;
if flag=1 then
dbms_output.put_line(n|| ' is prime');
else
dbms_output.put_line(n ||' is not prime');
end if;
end;
/

```

Outputs:

1.>

```
Statement processed.
factorial=120
```

2.>

```
Statement processed.
34 is not prime
```