PL/SQL

Q1: Write a PL/SQL program to find the factorial of a given number

```
 declare
fact number:=1;
n number:=&n;
begin
 while n>0
loop
 fact:=fact*n;
 n:=n-1;
 end loop;
 dbms_output.put_line('factorial is' ||fact);
 end;
 /
```

```
Enter value for n: 4
old   3:  n number:=&n;
new   3:  n number:=4;
factorial is24
```

Q2: Write a PL/SQL program to check whether the given no is prime or not

```
 declare
 n number:=&n;
i number:=2;
flag number:=1;
 begin
for i in 2 ..n/2
 loop
if mod(n,i)=0
 then
 flag:=0;
 exit;
 end if;
 end loop;
 if flag=1
 then
 dbms_output.put_line('no is prime');
 else
 dbms_output.put_line('not prime');
```

```
end if;
end;
/
```

```
Enter value for n: 2
old   2:   n number:=&n;
new   2:   n number:=2;
no is prime
```

Functions

- Write a PL/SQL program to Check whether a number is Armstrong or not using functions
- Create table that contains itemid,item_name & price of several items sold in a grocery shop, Using functions retrieve the item name & price from table when itemid is given as input.
- Write a PL/SQL function called POW that takes two numbers as argument and return the value of the first number raised to the power of the second .