1. **Write a PL/SQL block to find the maximum number from given three numbers.**

```
declare
a number;
b number;
c number;
begin
a:=&a;
b:=&b;
c:=&c;
if  (a>b and a>c) then
dbms_
output.put_line('a is maximum ' || a);
elsif (b>a and b>c) then
dbms_output.put_line('b is maximum ' || b);
else
dbms_output.put_line('c is maximum ' || c);
end if;
end;
```

2. **Write a PL/SQL block to find the sum of first 100 natural no.**

```
declare
a number:=0;
begin
for i in 1..100
loop
a:=a+i;
end loop;
dbms_output.put_line('The sum of 100 natural nos is = '||a);
end;
```

3. **Write a PL/SQL block to find the sum of first 100 odd nos. and even nos**

```
declare
odd number:=0;
even number:=0;
i number;
begin
for i in 1..100
loop
if(i mod 2 = 0) then
even:=even+i;
else
odd:=odd+i;
end if;
end loop;
dbms_output.put_line('The Sum of 100 even nos is ' || even);
dbms_output.put_line('The Sum of 100 odd  nos is ' || odd);
end;
```

4. **Write a PL/SQL block to display the Information of given student on following tableStud (sno, sname, address, city)**

Table Creation...

```
create table stud(
sno number primary key,
sname char(15),
addr varchar(30),
city char(15));
insert into stud values(1,'hiral','2,krishna society','Mehsana.');
insert into stud values(2,'pinky','4,Kalyaneshwer
society','Mehsana.');
insert into stud values(3,'Dhruvi','24,Pushpavati society','Mehsana');

declare
no number;
n number;
name char(15);
add varchar(50);
c char(15);
begin
n:=&n;
select sno,sname,addr,city into no,name,add,c from stud where sno=n;
        dbms_output.put_line('The Sno is ' || no);
        dbms_output.put_line('The Sname is ' || name);
        dbms_output.put_line('The address is ' || add);
        dbms_output.put_line('The city is ' || c);
        end;
```

5. Write a PL/SQL block for preparing a Net Salary, given employee on following table

Emp (eno, ename, address, city)
Salary (eno, basic, da, hra, it)
Net_Salary (eno, total_allowance, total_deduction, netpay)
Notes : D.A. = 59% of basic , H.R.A. = 500, I.T. = 2% of basic
Total_Allowance = Basic + D.A. + H.R.A., Total_Deduction = I.T.
Netpay = Total_Allowance –Total_Deduction

.

Table Creation

...

```
create table emp(
eno numb
er primary key,
ename char(15),
addr varchar(30),
city char(15));
insert into emp values(1,'hiral','2,krishna society','Mehsana.');
insert into emp values(2,'pinky','4,Kalyaneshwer society','Mehsana.');
insert into emp values(3,'Dhruvi','24,Pushpavati
society','Mehsana');
create table salary(
eno number references emp,
basic number(10,2),
da number(10,2) default NULL,
hra number(10,2) default 500,
it number(10,2) default NULL);
```

```
insert into salary(eno,basic) values(1,20000);
insert into salary(eno,basic) values(2,30000);
insert into salary(eno,basic) values(3,40000);
update salary set da=basic*0.59,it=basic*0.02;
create table netsal(
eno number references emp,
totalallow number(10,2),
totalded number(10,2),
netpay number(10,2));

declare
no number;
n number;
d number(10,2);
b number(10,2);
h number(10,2);
i number(10,2);
ta number(10,2);
td number(10,2);
np number(10,2);
begin
n:=&n;
select eno,basic,da,hra,it into no,b,d,h,i from salary where eno=n;
ta:=b+d+h;
td:=i;
np:=ta
-
td;
insert into netsal values(no,ta,td,np);
end;
```

6. Write a PL/SQL block to raise the salary by 20% of given employee on following table.

Emp_Salary (eno, ename, city, salary)

\

Table Creation...

```
eno number primary key,
ename char(15),
city char(15),
sal number(10,2));
insert into empsal values(1,'Hiral','Mehsana',20000);
insert into empsal values(2,'Pinkey','Mehsana',15000);
insert into empsal values(3,'Dhruvi','Mehsana',10000);
```

Program...

```
declare
n number;
s number(10,2);
begin
n:=&n;
--
select sal into s from empsal where eno=n;
update empsal set sal=sal+(sal*0.20) where eno=n;
```

```
end;
```

7. **Write an Implicit Cursor to accept theemployee number from the user. You have to delete this record and display the appropriate message on the following table**

Emp (eno, ename, address, city)

Table Creation...

```
create table emp1(
eno number primary key,
ename char(15),
addr varchar(30),
city char(15));
insert into emp1 values(1,'hiral','2,krishna society','Mehsana.');
insert into emp1 values(2,'pinky','4,Kalyaneshwer society','Mehsana.');
insert into emp1 values(3,'Dhruvi','24,Pushpavati society','Mehsana');
```

Program...

```
declare
n number;
begin
n:=&n;
delete from emp1 where eno=n;
if sql%found then
dbms_output.put_line('The record ' ||n|| ' success fully deleted');
else
dbms_output.put_line('The rec
ord ' ||n|| ' not found');
end if;
end;
```

8. **Write a Cursor to display the first five records on the following table.**

Student(sno, sname, address, city)

Table Creation...

```
create table stu(
sno number primary key,
sname char(15),
addr varchar(30),
city char(15));
insert into stu values(1,'hiral','2,krishna society','Mehsana.');
insert into stu values(2,'pinky','4,Kalyaneshwer society','Mehsana.');
insert into stu values(3,'Dhruvi','24,Pushpavati society','Mehsana');
insert into stu values(4,'ukti','2,krishna society','Mehsana.');
insert into stu values(5,'jaya','4,Kalyaneshwer society','Mehsana.');
insert into stu values(6,'prisha','2,krishna society','Ahmedabad');
insert into stu values(7,'pray','4,Kalyaneshwer so
ciety','Mehsana.');
```

Program...

```
declare
cursor c_stu is select sno,sname,addr,city from stu;
n number;
no number;
name char(15);
```

```
a varchar(30);
c char(15);
begin
open c_stu;
if c_st
u%isopen then
loop
fetch c_stu into no,name,a,c;
exit when c_stu%rowcount > 5;
dbms_output.put_line('  '||no||'     ' ||name||'     '||a||'     '||c);
end loop;
end if;
close c_stu;
end;
```

9. **Write a Cursor for preparing a Net Salary for employee's of finance department and Net Pay is more than 10,000 on following table.**

```
Emp (eno, ename, department, address, city)
Salary (eno, basic, da, hra, it)
N
et_Salary (eno,total_allowance, total_deduction, netpay)
\
Table Creation...
create table emp2(
eno number primary key,
ename char(15),
dept char(20),
addr varchar(30),
city char(15));
insert into emp2 values(1,'hiral','finace','2,krishna society','Mehs
ana.');
insert into emp2 values(2,'pinky','account','4,Kalyaneshwer society','Mehsana.');
insert into emp2 values(3,'Dhruvi','finace','24,Pushpavati society','Mehsana');
insert into emp2 values(4,'ukti','account','4,Kalyaneshwer society','Mehsana.');
insert into emp2 values(5,'jaya','finace','24,Pushpavati society','Mehsana');
create table salary1(eno number references emp2,basic number(10,2),
da number(10,2) default NULL,
hra number(10,2) default 500,
it number(10,2) default NULL);
insert into salary1(eno,basic) values(1,2000);
insert into salary1(eno,basic) values(2,30000);
insert into salary1(eno,basic) values(3,40000);
insert into salary1(eno,basic) values(4,15000);
insert into salary1(eno,basic) values(5,10000);
update salary1 set da=basic*
0.59,it=basic*0.02;
create table netsalary(
eno number references emp2,
totalallow number(10,2),
totalded number(10,2),
netpay number(10,2));
declare
```

```
cursor c_salemp is select emp2.eno,basic,da,hra,it from emp2,salary1
where dept
='finace' and emp2.eno=salary1.eno;
no number;
d number(10,2);
b number(10,2);
h number(10,2);
i number(10,2);
ta number(10,2);
td number(10,2);
np number(10,2);
begin
open c_salemp;
loop
fetch c_salemp into no,b,d,h,i;
exit when c_salemp%notfound;
ta:=b+h+d;
td:=d;
np:=ta
-
td;
if np > 10000 then
insert into netsalary values(no,ta,td,np);
end if;
end loop;
close c_salemp;
end;
```

10. **Write a Cursor to display the employee number, name, department and salary of first employee getting the highest salary.**
    Emp (**eno**, ename, department, address, city)
Salary (eno, salary)

Table Creation...

```
create table emp2(
eno number primary key,
ename char(15),
dept char(20),
addr varchar(30),
city char(15));
insert into emp2 values(1,'hiral','finace','2,krishna society','Mehsana.');
insert into emp2 values(2,'pinky','account','4,Kalyaneshwer society','Mehsana.');
insert into emp2 values(3,'Dhruvi','finace','24,Pushpavati society','Mehsana');
insert into emp2 values(4,'ukti','account','4,Kalyaneshwer society','Mehsana.');
insert into emp2 values(5,'jaya','finace','24,Pushpavati society','Mehsana');
create table salary2(eno number references emp2,sal number(10,2));
insert into salary2 values(1,22000);
insert into salary2 values(1,12000);
insert into salary2 values(2,25000);
insert into salary2 values(4,10000);
declare
cursor c_empsal is select salary2.eno,ename,dept,sal from
```

```
salary2,emp2 where sal in(select max(sal) from salary2) and
emp2.eno=salary2.eno;
n salary2.eno%type ;
name emp2.ename%type;
s salary2.sal%type;
d emp2.dept%type;
begin
open c_empsal;
loop
fetch c_empsal into n,name,d,s;
exit when c_empsal%notfound;
dbms_output.put_line('The employee no is '||n);

dbms_output.put_line('The employee name is
'||name);
dbms_output.put_line('The employee
department is '||d);
dbms_output.put_line('The
employee salary is
'||s);
end loop;
close c_empsal;
end;
```

11. Writes a Function to check whether the given number is prime or not.

Program...

```
create or replace function prime(a in number) return number is
j number:=0;
b number:=0;
n number:=a;
begin
b:=n-1;
for i  in 2..b
loop
if (mod(a,i)=0) then
j:=1;
exit;
end if;
end loop;
--
dbms_output.put_line('The j is'||j);
return j;
end;
declare
a number;
j number;
begin
a:=&a;
j:=prime(a);
if(j=1) then
dbms_output.put_line ('Not prime no');
else
```

```
dbms_output.put_line ('prime no');
end if;
end;
```

12. Write a Function to display first 25 Fibonacci nos.

Program...

```
create or replace fu
nction fibo(a in number) return number is
n number:=a;
m number:=0;
s  number;
c number;
begin
dbms_output.put_line('m= '||m);
dbms_output.put_line('n= '||n);
for c in 1..27
loop
s:=m+n;
dbms_output.put_line ('||
s);
m:=n;
n:=s;
end loop;
return 0;
end;
declare
n number:=1;
s  number;
begin
s:=fibo(n);
end;
```

13. Write a Function to display the reverse string of a given string.

```
create or replace function f_reverse(str in varchar) return varchar is
s varchar(5);
l number;
begin
l:=length(str);
for i in reverse 1..l
loop
s:=s||substr(str,i,1);
end loop;
return s;
end;
declare
str varchar(50);
s varchar(50);
begin
str:='&str';
s:=f_reverse(str);
dbms_output.put_line('The reverse string is '||s);
end;
```