**Table Creation:**

create table borrower\_detail(Rollin int, Name varchar(15), DateofIssue date, NameofBook varchar(20), Status varchar(10));

Table created.

SQL> create table fine\_detail(Roll\_no int,FineDate date,Amt int); Table created.

**PL/SQL Code:**

**delimiter $**

SQL> edit fine declare

roll\_no number;

name\_of\_book varchar(10);

diff\_date number;

p\_date date;

i\_date date;

fine\_amt real;

begin roll\_no:=&roll\_no;

name\_of\_book:='&name\_of\_book';

select dateofissue into i\_date from Borrower\_detail where rollin=roll\_no;

select sysdate - i\_date into diff\_date from dual; dbms\_output.put\_line(diff\_date);

if (diff\_date>15 AND diff\_date<30) then fine\_amt:=diff\_date\*5;

else fine\_amt:=diff\_date\*50; end if;

dbms\_output.put\_line('fine amt='||fine\_amt);

update Borrower\_detail set status='r' where rollin=roll\_no; if (fine\_amt>0) then

insert into Fine\_detail values(roll\_no,i\_date,fine\_amt);

end if;

end;

**$**

/

**Data Insertion:**

SQL> insert into borrower\_detail values(1001,'Vasuki','03-NOV-20','CPP','I'); 1 row created.

SQL> insert into borrower\_detail values(1002,'Ria','03-OCT-20','SEPM','I'); 1 row created.

SQL> insert into borrower\_detail values(1003,'Madhuri','01-DEC-20','DBMS','I'); 1 row created.

**Output :**

SQL> @fine

Enter value for roll\_no: 1001 old 9: roll\_no:=&roll\_no;

new 9: roll\_no:=1001;

Enter value for name\_of\_book: CPP

old 10: name\_of\_book:='&name\_of\_book'; new 10: name\_of\_book:='CPP'; PL/SQL procedure successfully completed.

SQL> select \* from fine\_detail;

ROLL\_NO FINEDATE AMT

- - 1001 03-NOV-20 148

SQL> @fine

Enter value for roll\_no: 1002 old 9: roll\_no:=&roll\_no;

new 9: roll\_no:=1002;

Enter value for name\_of\_book: SEPM

old 10: name\_of\_book:='&name\_of\_book'; new 10: name\_of\_book:='SEPM'; PL/SQL procedure successfully completed.

SQL> select \* from fine\_detail;

ROLL\_NO FINEDATE AMT

- -

1001 03-NOV-20 148 1002 03-OCT-20 3025

SQL> select \* from borrower\_detail;

ROLLIN NAME DATEOFISS NAMEOFBOOK STATUS

1001 Vasuki 03-NOV-20 CPP r

1002 Ria 03-OCT-20 SEPM r

1003 Madhuri 01-DEC-20 DBMS l

**PL/SQL Code:**

declare

r1 number:=&r1;

a1 number(14,2);

value\_out\_of\_bounds\_exception exception; begin

if r1>=5 and r1<=9 then a1 := 3.14\*r1\*r1;

insert into areass values(r1,a1);

else

raise value\_out\_of\_bounds\_exception;

end if;

exception

when value\_out\_of\_bounds\_exception then dbms\_output.put\_line('radius must be between 5 and 9.');

end;

/

Output:

SQL> set serverout on

SQL> @ circle assignment Enter value for r1: 0

old 2: r1 number:=&r1; new 2: r1 number:=0;

radius must be between 5 and 9.

PL/SQL procedure successfully completed.

SQL> @ circle assignment Enter value for r1: 6

old 2: r1 number:=&r1; new 2: r1 number:=6;

PL/SQL procedure successfully completed.