GROUP A4- PL/SQL PROGRAM
PART1-

```
CREATE TABLE Borrower (Roll_no INT, Name VARCHAR(20), dateofissue DATE, NameofBook
VARCHAR(20), Status VARCHAR(10));
REATE TABLE Fine (Roll_no INT, datei DATE, Amt INT);

INSERT INTO Borrower VALUES(01,'ABC',TO_DATE('01-08-2025','DD-MM-
YYYY'),'DBMS','I');
INSERT INTO Borrower VALUES(02,'XYZ',TO_DATE('15-08-2025','DD-MM-YYYY'),'TOC','I');
INSERT INTO Borrower VALUES(03,'PQR',TO_DATE('24-08-2025','DD-MM-
YYYY'),'CNS','R');
INSERT INTO Borrower VALUES(04,'MNO',TO_DATE('26-09-2025','DD-MM-YYYY'),'HCI','I');
INSERT INTO Borrower VALUES(05,'DRS',TO_DATE('09-09-2025','DD-MM-YYYY'),'DS','I');

DECLARE
        i_roll_no NUMBER;
        name_of_book VARCHAR2(25);
        no_of_days NUMBER;
        return_date DATE := SYSDATE;
     temp NUMBER;
        doi DATE;
        fine NUMBER;
BEGIN
        i_roll_no := &i_roll_no;
        name_of_book := '&name_of_book';
        dbms_output.put_line(return_date);
        SELECT Borrower.dateofissue INTO doi FROM Borrower WHERE Borrower.Roll_no =
i_roll_no AND Borrower.Nameofbook = name_of_book;
        no_of_days := return_date-doi;
        dbms_output.put_line(no_of_days);
        IF (no_of_days >15 AND no_of_days <=30) THEN
                fine := 5*no_of_days;

        ELSIF (no_of_days>30 ) THEN
                temp := no_of_days-30;
                fine := 150 + temp*50;
        END IF;
        dbms_output.put_line(fine);
        INSERT INTO Fine VALUES(i_roll_no,return_date,fine);
        UPDATE Borrower
   SET status = 'R'
   WHERE Roll_no = i_roll_no AND Nameofbook = name_of_book;
END;
/

SELECT * FROM Borrower;
SELECT * FROM Fine;
```

Borrower table-

ROLL_NO	NAME	DATEOFISSUE	NAMEOFBOOK	STATUS
1	ABC	2025-08-08	DBMS	I
2	XYZ	2025-09-01	TOC	I
3	PQR	2025-08-05	CNS	R
4	MNO	2025-09-02	HCI	I
5	DRS	2025-09-03	DS	I

ROLL_NO	NAME	DATEOFISSUE	NAMEOFBOOK	STATUS
1	ABC	2025-08-01	DBMS	I
2	XYZ	2025-08-15	TOC	R
3	PQR	2025-08-24	CNS	R
4	MNO	2025-09-26	HCI	R
5	DRS	2025-09-09	DS	I

Fine table-

ROLL_NO	DATEI	AMT
2	2025-09-08	124
4	2025-09-08	NULL

PART2-
CREATE TABLE AREAS(radius int, area number (10,5));

```
DECLARE
    radius_var number(10);
    area_var number(10,5);
    p number(3,2);
BEGIN
  p:=3.14;
  FOR radius_var IN 5..9 LOOP
    area_var:= p*radius_var*radius_var;
    dbms_output.put_line('Area of circle is: '||area_var);
    INSERT INTO AREAS VALUES (radius_var,area_var);
  END LOOP;
END;
/
SELECT * FROM AREAS;
```

OUTPUT-
Area of circle is:78.5
Area of circle is:113.04
Area of circle is:153.86
Area of circle is:200.96
Area of circle is:254.34

RADIUS	AREA
5	78.5
6	113.04
7	153.86
8	200.96
9	254.34