1. Write a PL/SQL program to print the product of two numbers.

2. Write a PL/SQL program to convert dollar to rupees.

3. Write a PL/SQL program to find largest and smallest of 3 numbers.

4. Write a PL/SQL program to find the area of a circle and a square.

5. Write a PL/SQL program to find sum of first n natural numbers.

6. Write a PL/SQL program to generate the following sequence: 1, 4, 9, 16, 25,….

7. Write a PL/SQL program to check a number is Armstrong

8. Write a PL/SQL program to reverse a string.

9. An employee is given 25% increase in salary, if salary is above Rs.25000 and 20% increase in salary if his salary is above Rs.30000. Write a PL/SQL program to calculate the new salary and change in salary.

10. Write a PL/SQL program to insert the first 15 odd nos into a table ODD and first 15 even nos into a table EVEN.

11. Write a PL/SQL program to update salary of Sindhu by 30% if she is earning salary >10000, otherwise update by 20% if she is earning salary>8000. Otherwise update by 10%.(Table name-income, Columns: ename, salary)

12. Update the salary of all the employees by 20%. If total salary>1,00,000, then rollback, else commit.

13. Create a table student(rollno, stud_name,sessionals, univ_mark). If the sessionals+univ_mark>150, raise an error message. Also handle all the possible exceptions.

14. Write a PL/SQL program to accept the customer_no and print the electricity bill for the same. The charge is calculated as follows:

UNITS CONSUMED CHARGE

| | |
|---|---|
| <20 | Nil |
| 20-100 | 50ps per unit |
| 101-300 | 75ps per unit |
| 301-500 | 150ps per unit |
| >500 | 225ps per unit |

Print the electricity bill in the form:

ELECTRICITY BILL

CONSUMER NO

PRESENT READING

PAST READING

UNITS TAKEN

CHARGE

15. Create a hostel mess database with fields(stud_no, name, messfee, veg/nonveg). Write a PL/SQL program to increase the mess fee of vegetarians by 10% and non vegetarians by 20%. Also create tables vegetarian and non_vegetarian which includes fields: stud_no, name, raise_in_fee and date on which raise was given. Insert values into these tables through PL/SQL program.

16. Create a table T1 having 3 fields(rollno, univ_mark and sessionals). Write a PL/SQL program to do the following: If sessionals is in between 30 and 34, then give necessary moderation so that it comes upto 35. If univ_mark+sessionals>75, then insert those tuples into another table T2.

17. Write a function which accepts the reg_no and print the total marks. The student table has the fields: reg_no, name, physics_mark, chemistry_mark and maths_mark.

18. Write a function to find sum of first N even no:s

19. Write a PL/SQL program to display the grade of a particular student from student database. Use a stored procedure to display the grade

| TOTAL MARK | GRADE |
|---|---|
| >100 | A |

| | |
|---|---|
| 70-100 | B |
| 50-70 | C |
| <50 | Fail |

20. Create an account table(acc_no, cname, balance, branch_name), loan table(loan_no, amt, branch_name), borrower table(cname, loan_no). Create a trigger to perform the following operations:

Whenever the balance becomes negative, create a loan in the amount of overdraft. The loan_no is given same as acc_no.

21. Create a transparent audit system for a table clientmaster. The system has to keep track of records that have been removed or modified and when they have been removed or modified. Table details are given below:

AuditClient: name, bal_due, operation, Op_date

Clientmaster: c_no, name, address, bal_due

22. Create a table with 2 number fields a and b. Write a trigger so that the value that is entered into the table satisfies the condition: a+b>75. Also if value of b is changed, it should not be changed to a smaller value. Tuples that violate these conditions should not be entered.