ARTIFICIAL INTELLIGENCE LAB

1. Study of PROLOG.
2. Write a program to implement the input-output or predicate of PROLOG.
    a. Calculate the square of a number.
    b. Calculate the area of a circle, square, and rectangle.
    c. Calculate the simple interest.
3. Write a program to implement local variables and conditional statements in PROLOG.
    a. To check whether a number is even or odd.
    b. To find the maximum of two numbers.
    c. To find grades of students based on marks achieved:
        - Marks ≥ 90 (A Grade).
        - $75 \leq$ Marks ≤ 90 (B Grade).
        - $50 \leq$ Marks ≤ 75 (C Grade).
        - Marks < 50 (Fail).
    d. Determine if the triangle is equilateral, isosceles or scaler.
4. Write simple facts for the statements using PROLOG
    a. Ram likes mango.
    b. Seema is a girl.
    c. Bill likes Cindy.
    d. Rose is red.
    e. John owns gold.