

Algorithm and Flowchart Using Draw.io

Objective

To design algorithms and draw corresponding flowcharts using Draw.io (diagrams.net) for basic programming concepts.

Tool Required

- Web browser
- Draw.io (<https://app.diagrams.net>)

Lab Instructions

1. Write a clear algorithm for each problem.
2. Draw the flowchart using standard symbols in Draw.io:
 - Oval → Start/End
 - Parallelogram → Input/Output
 - Rectangle → Process
 - Diamond → Decision
3. Save each flowchart as PNG or PDF.
4. Label all symbols properly.

Lab Questions

Question 1: Design an algorithm and draw a flowchart to calculate the sum and average of three numbers entered by the user.

Question 2: Design an algorithm and draw a flowchart to check whether a given number is positive, negative, or zero.

Question 3: Design an algorithm and draw a flowchart to find the largest among three numbers.

Question 4: Design an algorithm and draw a flowchart to calculate the factorial of a given number.