

## 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.