

Problems

- 4.1 Write a module that accepts a number and returns its integer part.
- 4.2 Draw the flowchart of problem 4.1
- 4.3 Write a module and draw its flowchart to accept two numbers and exchange their values.
- 4.4 Write a structured algorithm and draw a structured flowchart to calculate the series:

$$y = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \dots$$

Provided that the stopping criterion is

$$\left| \frac{x^i}{i!} \right| \leq 0.001$$