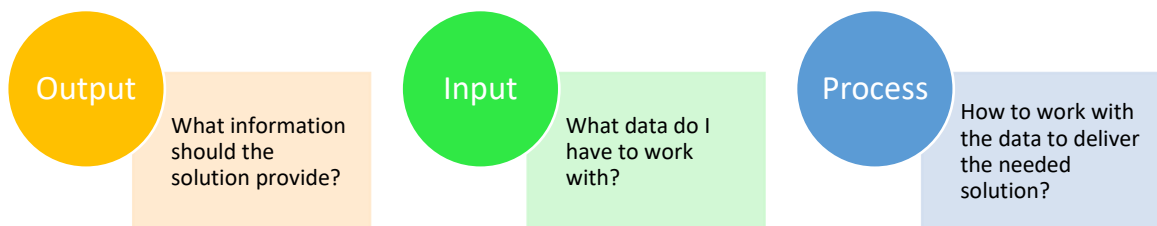


Instructions:

- You are to solve the following programs in the lab using the problem solving and algorithm methods and share the answer with your lecturer.
- Remember the following rules:
 - Think before you program!
 - A program is a human-readable essay on problem solving that also happens to execute on a computer.
 - The best way to improve your programming and problem skills is to practice!
 - Test your code, often and thoroughly!
 - If it was hard to write, it is probably hard to read.

Notes:

1. Three steps that a program typically performs:
 - Gather input data:
 - from keyboard
 - from files on disk drives
 - Process the input data
 - Display the results as output:
 - send it to the screen
 - write to a file
2. The moment you read the problem; you should try to answer the following questions:



Questions

Using the problem-solving techniques, solve the following problems:

1. Calculate area of rectangle.
2. Calculate employee income tax based on the following formula:

$$\text{Tax} = 0.25 * (\text{monthly income} * 11 - \text{number of kids} * 450)$$

Your program will display the name of the employee and amount of tax on the screen.

3. Receive an integer from the user, add 5 to it, double it, subtract 7 from it, and display the final number on the screen.
4. Calculate area and circumference of circle.
5. Calculate and print the average of three numbers: 20, 10, and 2.