Exercises section from the textbook chapter "Algorithm and Flowchart" for Class 6:

A. Tick (□) the correct answers

1. b) Problem-solving
2. a) Algorithm
3. a) Flowchart
4. c) Six
5. b) Terminal

B. Fill in the blanks

1. In a **loop-based flowchart**, a process is repeated until a condition is met.
2. Different shapes are used to make a **flowchart**.
3. An **algorithm** is a set of instructions written in a simple language to solve a problem.
4. A simple flowchart moves only in the **vertical** direction.
5. **Flow lines** are used to connect different symbols in a flowchart.

C. Write T for True and F for False

1. F
2. F
3. F
4. F
5. F

D. Answer the following questions

1. **What do you understand by problem-solving? List some problems related to daily routine.**
   Problem-solving is an activity or task done to achieve a specific goal. It involves a

step-by-step method to reach a solution.
Examples:

- Packing your school bag
- Finding your homework in your diary
- Preparing breakfast
- Planning a family outing

2. **What is the difference between an algorithm and a flowchart?**
   An algorithm is a step-by-step instruction written in simple language to solve a problem.
   A flowchart is a diagram that shows the steps of an algorithm using symbols and arrows.
3. **Describe any three flowchart symbols.**
   - **Terminal**: Indicates the start or end of a flowchart.
   - **Input/Output**: Used to take input or show output.
   - **Decision**: Used to ask a question with a Yes/No answer.
4. **How are connectors different from flow lines?**
   Connectors are used to connect breaks in a flowchart, especially when it moves to a different part of the page.
   Flow lines show the direction of steps or the flow from one symbol to another.
5. **Briefly explain the use of decision-making flowcharts.**
   Decision-making flowcharts are used to make choices based on conditions. They help choose between options like Yes or No, and follow different paths based on the decision.