Assignment 1

Course Outcome (CO1): ***Understand basic approaches and strategies used in computational problem solving.***

Part A: Short Answer Questions

Q. No.	Question	Bloom's Level
1	Differentiate between hardware and software with suitable examples.	Understand
2	Distinguish between system software and application software.	Understand
3	Explain the working of a compiler and an interpreter with proper comparison.	Analyse
4	Define an algorithm. List two characteristics of a good algorithm.	Remember / Understand

Part B: Long Answer Questions

Q. No.	Question	Bloom's Level
5	Draw a neat block diagram of a computer system and explain the function of each component.	Understand
6	Explain the different types of software in detail with examples.	Understand
7	Compare and contrast machine-level, assembly-level, and high-level programming languages with examples.	Analyse
8	Why are high-level languages preferred for modern software development? Give reasons.	Evaluate
9	What is a flowchart? Draw a flowchart to find the largest of three numbers.	Apply

Part C: Application / Case-based Questions

Q. No.	Question	Bloom's Level
10	Write an algorithm to calculate the factorial of a given number.	Apply

Q. No.	Question	Bloom's Level
11	**Case: Payroll management system – Identify required software + choose compiler/interpreter.**	**Apply / Analyse**
12	**A new student is learning programming. Which type of language should they start with? Explain.**	**Evaluate**

***** ALL THE BEST *****