# Assignment 2

**Course Outcome (CO2):** ***Recall and apply flowcharts and algorithms to represent solutions to simple problems.***

**Part A: Short Answer Questions**

| Q. No. | Question | Bloom's Level |
|---|---|---|
| 1 | List any four features of the C programming language. | Remember |
| 2 | Write the general structure of a C program. | Remember / Understand |
| 3 | What are header files in C? Give two examples. | Understand |
| 4 | Define constants and variables with suitable examples. | Remember / Understand |

**Part B: Long Answer Questions**

| Q. No. | Question | Bloom's Level |
|---|---|---|
| 5 | Explain the role of comments in C programming. Why are they important? | Understand |
| 6 | Discuss the different data types in C with examples. | Understand |
| 7 | Explain the different types of operators in C. | Understand / Analyze |
| 8 | Describe expressions and evaluation in C with examples. | Analyze |
| 9 | Explain type conversion in C. Distinguish between implicit and explicit conversion with examples. | Analyze / Apply |

**Part C: Application / Case-based Questions**

| Q. No. | Question | Bloom's Level |
|---|---|---|
| 10 | Write a C program to swap two numbers using variables and arithmetic operators. | Apply |
| 11 | Write a C program to evaluate the expression z = (a + b) * c - d/e. Explain how operator precedence and associativity rules affect the result. | Apply / Analyze |
| 12 | Consider a program where a float value is assigned to an int variable. Explain what happens during type conversion and write a small C code snippet to demonstrate this. | Apply / Analyze |

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