



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
COMPUTER APPLICATIONS

C Programming

Assignment – 1

Course: Fundamentals of Programming in C

Subject Instructor: Mohd Adil (Assistant Professor)

Semester: BCA – I

- Attempt all questions.
- Write neat, well-indented code with comments.
- Mention your name, roll number, and section.
- Students are instructed to write their answers on A4-sized sheets or plain paper.
- Submission deadline: **8-September, 2025**

Part A (Short Answer – Theory)

Q1. Define a programming language. Why do we need C language?

Q2. What is the difference between constant and variable? Give two examples.

Q3. Evaluate the following expression using the precedence and associativity of operators with the help of table:

$$100-10+15\%4+7*3$$

Q4. Differentiate between the following with suitable examples:

- a) Identifier and Variable
- b) Signed and Unsigned (data types)
- c) printf() and scanf() functions

Q5. Write down the different types of operators in C with one example each.

Part B (Practical Programs)

Q6. Write a program to **declare and initialize variables** of type int, float, and char, and display their values.

Q7. Write a program to find the sum and product of two integer numbers.

Q8. Write a program to show the difference between integer division and floating-point division.

Q9. Write a program to demonstrate the use of arithmetic operators (+, -, *, /, %).

Q10. Write a program to calculate the area of a rectangle and a circle (use appropriate constants and variables).