
Programming Fundamentals

BS (CS) _Fall_2025

Lab_05 Tasks



Learning Objectives:

1. DataType
2. Operator (arithmetic)
3. Literal
4. Type Casting

Lab Tasks

Submission Instructions

1. Create a new folder with name *ROLLNO_SEC_LAB05* e.g. **i25XXXX_A_LAB05**
2. Move all of your files to this newly created directory and compress it into a **.zip file**.
3. Now you have to submit this zipped file on Google Classroom.
4. If you don't follow the above-mentioned submission instruction, you will be marked **zero**.
5. Plagiarism in the Lab Task will result in **zero** marks in the whole category.

Zero Tasks

Q1. Write a program takes three numbers as input and apply arithmetic operations of Addition, Subtraction, Multiplication, Division and Modulus on those two numbers.

Example Input: num_1 = 20, num_2 = 4 and num_3 = 5

Example Output:

Addition : 29

Subtraction : 11

Multiplication : 400

Division : 1

Modulus : 0

Q2. Write a program that reads an integer and prints its first 10 multiples

Example Input: Enter a number: 5

Example Output: First 10 multiples:

5,10,15,20,25,30,35,40,45,50

Lab Tasks

Q3. Take a person's **age in years** and calculate:

1. Equivalent age in months.
2. Equivalent age in days.
3. Equivalent age in hours.

Hint: Assume 1 year = 365 days

Q4. Write a C++ program that takes a binary number (e.g., 1011) as input and converts it into its decimal form. Print the decimal value.

Hint: $2^0 + \dots + 2^n$ (binary to decimal conversion)

Q5. Write a program that will compute the total sales tax on a \$95 purchase. Assume the state sales tax is 4 percent and the county sales tax is 2 percent. Display each tax and the total with two decimal places of precision.