
Programming Fundamentals

BS (CS) _Fall_2025

Lab_04 Tasks



Learning Objectives:

1. Basic Programming
2. Insertion / extraction operators

Lab Tasks

Submission Instructions

1. Create a new folder with name *ROLLNO_SEC_LAB04* e.g. **i25XXXX_A_LAB04**
2. Compress your files directly 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 to print the following using just COUT statement & setw() function but you have to store the number in variables.

```
1  
1 2  
1 2  
1 2  
1 2  
1 2  
1 2  
1  
1 2
```

Note: Use **setw** function instead of space character.

- Q2. Write a program to input your name as first name and last name, last 4 digits of roll number and CGPA and print that information.

Lab Tasks

Q3. Write a program that prints your first name (i.e. my first name is Zille) using COUT & setw statement.

Pattern for ZILLE:

```
***** * **** *      *      *  *****  
    *      *      *      *  *  
    *      *      *      *  *****  
    *      *      *      *  *  
***** * **** *      *      *  *****
```

Note: Use setw function instead of space character.

Q4. Write a C++ program that prints a calendar layout for September 2025, starting on Monday. Use setw for alignment.

September 2025						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Q5. Write a C++ program that prints a smiley face:



Q6. Show multiples of π with setprecision(4).

n	n * pi
1	3.1416
2	6.2832
3	9.4248
4	12.5664
5	15.7080
6	18.8496