



C Lab Manual

Department of Computer Engineering (KhCE)

C-Programming Lab Sheet
I Year / I Part
Faculty: Civil/Computer/Electrical

Lab Instructions

Dear Students,

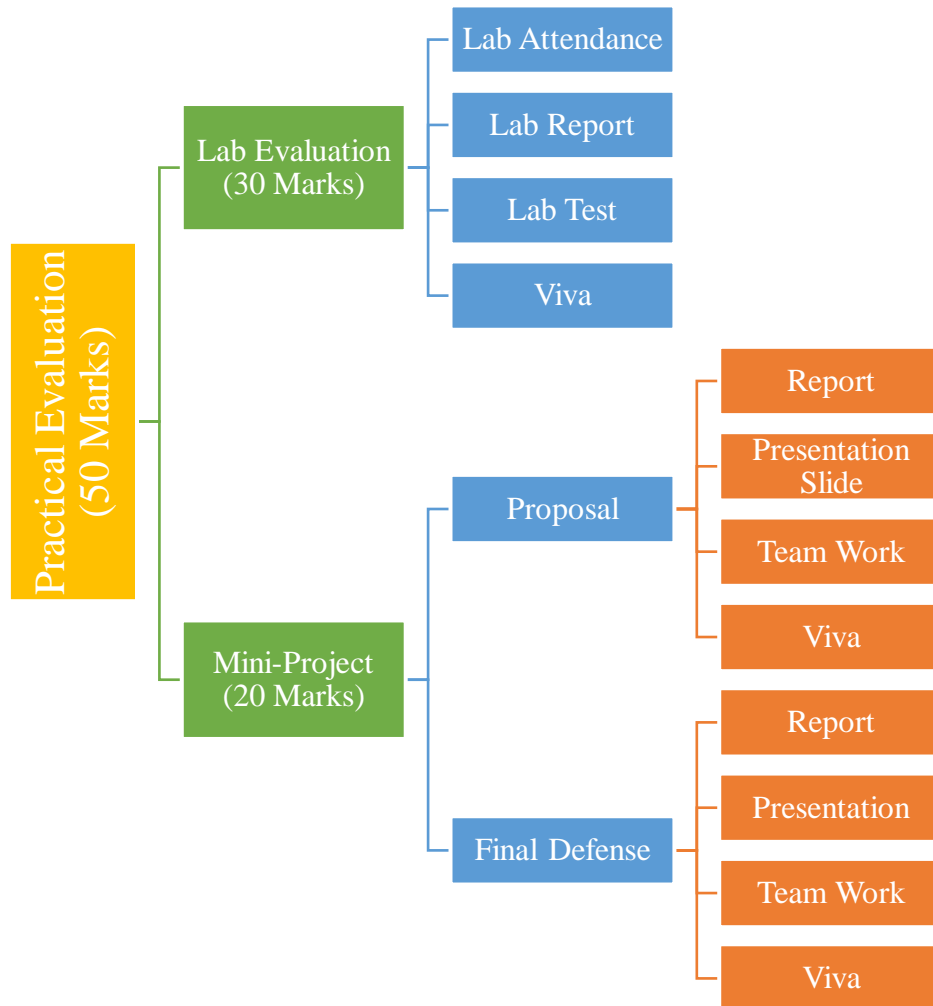
Welcome to C programming Lab. For the practical works of C programming, you have to complete at least eight to ten lab activities and should complete group (max. members = 4 within your practical group) mini-project throughout the course. These lab sheets will guide you to prepare for programming and submission of lab reports. Further, it helps you to understand practically about the knowledge of programming. You can use this lab guide as the base reference during your lab.

You have to submit lab report of previous lab into corresponding next lab during when your instructor shall take necessary viva for each lab works. Your lab report to be submitted should include at least the following topics.

1. Cover Page
2. Title
3. Objective(s)
4. Problem Analysis
5. Algorithm
6. Flowchart
7. Program / Source Code / Coding
8. Output (Compilation, Debugging & Testing)
9. Discussion of Every Program
10. Conclusion

On each lab, you have to submit the report as mentioned above however for additional lab exercise; you have to show the coding and output to your instructor.

Lab Evaluation Criteria



Collaboration & Cheating Policy

- You are welcome to discuss assignments & laboratory projects with other students, provided that all work turned in must be your own.
- If you do discuss your work with other students on assignments, please list your collaborators at the top of your assignment, underneath your name.
- This does not excuse you from submitting your own work.
- Students caught engaging in an academically dishonest practice will receive an NQ for the course.
- Plagiarism detection tools may be used.

Mini-project Title Selection

You are free to select mini-project title for your group, but you will get the title as per “First Come First” basis on commenting on GitHub if two or more group have similar title. It is recommended to select project title as per your domain.

Recommended Project Titles

- Share Portfolio Management System
- Nepali Calendar
- PCR Record Management System
- Cricket Score Sheet
- Student Management System
- Personal Diary Management System
- Employee Management System
- Library System
- eAttendance Management System
- Office Management System
- Pharmacy Management System
- Blood Bank Management System
- Typing Tutor
- Kitchen Recipie
- Workers' Time Logger
- Hospital Management System
- Cafeteria Order Management System
- Contact Management System
- Hotel Reservation System
- Inventory Management System
- Canteen Billing System
- Task Reminder
- Number Plate Registration System
- Tax Payment System
- eWallet
- Pacman Game
- Mini-Mart Billing System
- Tourist Entry Logger
- Feedback Management System
- Project Info. System
- Khwopa Quiz
- Class Routine Management System
- Bank Management System
- Clothing Store Management System
- Student Payroll System
- Customer Billing System
- Break-Game
- Virtual Guitar
- Land Converter
- Gym Management System
- Prescription Logger
- Tic-tac-toe
- Bag Chal
- Hostel Management System
- Modern Periodic Table
- Date Converter
- Hostel Accommodation System
- Marksheet Generator
- Hangman
- Scientific Calculator
- Telephone Directory
- eVoting
- Puzzle
- Data Encryption/Decryption

Finalize your project title & comment to GitHub Issue: <https://github.com/ErSKS/C/issues/11>

Signup, watch, star & fork the repo for upcoming updates: github.com/ErSKS/C
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Mini-Project Defense

- Each mini-project team should face final defense after completion of their labs. Each team will get **10 minutes** for final presentation and **10 minutes** for Demo & Viva.

Lab Orientation

- C Lab/Lab-sheet Exploration
- Report Writing Orientation
- Mini-project Title Selection
- Familiarization with **Turbo C/Code Block** or Other IDE for programming practices
- Write your first **Hello World** program