Laboratory Session

Practical Exercises – 100% Online (No Installation Required)

Dear students,

Today you will work entirely through your browser.
We will use the best free online C compiler currently available:

👉 **https://www.onlinegdb.com/online_c_compiler**

Alternative (very good as well):
https://www.w3schools.com/c/tryit.php?filename=demo_helloworld

Lab Exercises

Complete them **one by one** in OnlineGDB.
(When you finish an exercise, click **Save**, then copy the link or download the .c file and submit it.)

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1. Warm-up

Write and run the classic "Hello World" program exactly as shown in the lecture.

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2. Personal Introduction

Make your program print:

*** Student Information ***

Name: Your Full Name

ID: 2025XXXXXX

Course: Introduction to C

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3. Two-line Welcome (with tabs)

Your program must output exactly:

Language: C

Year: 2025-2026

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4. Age Calculator

Ask the user: **"What year were you born?"**
Then print: **"In 2025 you are/will be X years old."**

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5. Simple Calculator

Ask the user for two integers a and b, then print:

a + b = ?

a - b = ?

a * b = ?

a / b = ?   (integer division)

a % b = ?   (remainder)

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6. Temperature Converter

Convert in both directions:

- Ask for temperature in Celsius → print Fahrenheit

- Then ask for Fahrenheit → print Celsius

Use the formulas:
F = C × 1.8 + 32
C = (F − 32) × 0.5556 (or 5.0/9.0)

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7. BMI Calculator (Full Version)

Ask the user for weight (kg) and height (m), compute BMI, then print the value (1 decimal) and category:

BMI < 18.5   → Underweight

18.5 ≤ BMI < 25 → Normal weight

25 ≤ BMI < 30   → Overweight

BMI ≥ 30   → Obese

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8. Bonus – Exact Box (Type it yourself!)

Print the following shape using only printf and escape sequences:

```
+-----------------+
|                 |
|   Welcome to C  |
|                 |
+-----------------+
```