

Homework 2 — Control Structures in C++

Objectives

Practice:

- Relational and logical operators
 - if, if...else, and nested selections
 - switch statement
 - Conditional (?:) operator
 - Real-world programming using control structures
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◆ Section A — Concept Practice

- 1 Write a program that reads two integers and prints whether they are equal, or which one is greater.
 - 2 Ask the user for a temperature. Print “Normal” if it is between 36 and 37.5 °C, otherwise print “Abnormal.”
 - 3 Write a program that prints whether a number is **even** or **odd** using the **conditional operator** ?:.
 - 4 Write a program that reads a year and checks whether it is a **leap year**.
 - 5 Input a score (0–100) and display its **letter grade** (A, B, C, D, F).
 - 6 Read an age and print whether the person is a **Child**, **Teen**, **Adult**, or **Senior**.
 - 7 Read one character and print whether it is a **vowel** or **consonant**.
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◆ Section B — switch Practice

- 8 Write a program that reads a number (1–7) and prints the corresponding **day of the week**.
- 9 Create a **simple calculator** that reads two numbers and an operator (+, -, *, /) and performs the operation using a switch.
- 10 Read a traffic-light color (R, Y, G) and print **Stop**, **Ready**, or **Go** using a switch.