



# C Programming Examination

## Topic: Switch Case Statements

Time: 1 Hour | Total Marks: 50

### Exam Description:

This examination assesses your understanding of the **switch-case statement** in C programming. Each problem requires you to implement structured decision-making logic using `switch`. Ensure your program is properly commented, indented, and produces the correct **input/output**.

### Instructions:

- Attempt **any five** questions.
- Each question carries **10 marks**.
- Use *switch-case* for decision-making tasks.
- Include *input and output statements* in your programs.
- Ensure *neat and readable code formatting*.

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### 1. Calculator Program

Write a program that performs basic arithmetic operations (addition, subtraction, multiplication, division) using `switch-case`. Display a menu for user choice and perform the selected operation.

**Sample Input:**

Enter choice: 1

Enter two numbers: 10 5

**Sample Output:**

Sum = 15

## 2. Day of the Week Finder

Write a program that takes an integer (1–7) and prints the corresponding day of the week using `switch`.

**Sample Input:**

Enter number: 3

**Sample Output:**

Wednesday

## 3. Month Name Finder

Create a C program that takes a number (1–12) and displays the corresponding month name using a `switch-case` structure.

**Sample Input:**

Enter month number: 12

**Sample Output:**

December

#### 4. **Grade Evaluation System**

Write a program that accepts a grade character (A, B, C, D, F) and prints the meaning of the grade using `switch`.

Example: A → Excellent, B → Good, C → Average, D → Pass, F → Fail.

**Sample Input:**

Enter grade: B

**Sample Output:**

Good

#### 5. **Electricity Bill Calculator**

Write a program to calculate the total electricity bill using switch-case as per the following rates:

- 0–100 units → ₹5/unit
- 101–200 units → ₹7/unit
- 201–500 units → ₹10/unit
- Above 500 units → ₹15/unit

**Sample Input:**

Enter units consumed: 150

**Sample Output:**

Total Bill = ₹1050

## 6. Vehicle Type Checker

Develop a program that accepts a number (1–5) from the user and displays the corresponding vehicle type and number of wheels.

**Sample Input:**

Enter your choice: 2

**Sample Output:**

Bike → 2 wheels

## 7. Mobile Recharge Plan

Create a C program to display mobile recharge plans using switch-case. The program should show validity and price details for the selected plan.

### Sample Input:

Enter plan number: 3

### Sample Output:

You selected ₹399 plan - 56 days validity.

## 8. Movie Ticket Booking

Write a C program that shows ticket categories and uses switch-case to display ticket price for the chosen type.

### Sample Input:

Enter seat type: 4

### Sample Output:

VIP Ticket - ₹500

## 9. Restaurant Menu

Write a program that displays a restaurant food menu and uses switch-case to display the selected item's price.

**Sample Input:**

Enter your order: 2

**Sample Output:**

You ordered Pizza - ₹150

## 10. ATM Operation Simulator

Create a program that simulates basic ATM operations: check balance, deposit money, withdraw money, and exit. Implement each operation using `switch-case`.

**Sample Input:**

Enter your choice: 2

Enter amount to deposit: 5000

**Sample Output:**

₹5000 deposited successfully.

Updated Balance = ₹15000