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Objective of Lab No. 4:

After performing lab4, students will be able to:

- Know about Nested conditions
 - Switch statements
1. Write a C++ program to print day of week name using switch case.
 2. Write a C++ program print total number of days in a month using switch case.
 3. Write a C++ program to check whether an alphabet is vowel or consonant using switch case.
 4. Write a C++ program to find maximum between two numbers using switch case.
 5. Write a C++ program to check whether a number is even or odd using switch case.
 6. Write a C++ program to check whether a number is positive, negative or zero using switch case.
 7. Write a C++ program to find roots of a quadratic equation using switch case.
 8. Write a C++ program to create Simple Calculator using switch case.

(Use Nested If else Conditional Statement)

9. C++ Program to Check Whether Number is Even or Odd
10. C++ Program to Check Whether a character is Vowel or Consonant.
11. C++ Program to Find Largest Number Among Three Numbers
12. Write a C++ program to check whether the triangle is equilateral, isosceles or scalene triangle.
13. Write a C++ program to find all roots of a quadratic equation.
14. Write a C++ program to calculate profit or loss. 19
15. Write a C++ program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following: Percentage $\geq 90\%$: Grade A
Percentage $\geq 80\%$: Grade B
Percentage $\geq 70\%$: Grade C
Percentage $\geq 60\%$: Grade D
Percentage $\geq 40\%$: Grade E
Percentage $< 40\%$: Grade F
16. Write a C++ program to input basic salary of an employee and calculate its Gross salary according to following:
Basic Salary ≤ 10000 : HRA = 20%, DA = 80%
Basic Salary ≤ 20000 : HRA = 25%, DA = 90%
Basic Salary > 20000 : HRA = 30%, DA = 95% 21