

# Lab or Tutorial Exercises

if else switch

1. Write a C program to find maximum between three numbers.
2. Write a C program to check whether a number is negative, positive or zero.
3. Write a C program to check whether a number is divisible by both 5 and 11 or not.
4. Write a C program to input any alphabet and check whether it is vowel or consonant.
5. Write a C program to input any character and check whether it is alphabet, digit or special character.
6. Write a C program to check whether a character is uppercase or lowercase alphabet.
7. Write a C program to input month number and print number of days in that month.
8. Write a C program to input the length of 3 sides of a triangle and check whether triangle is valid or not.
9. Write a C program to find all roots of a quadratic equation.
10. Write a C program to input three sides of a triangle and check whether the triangle is (a) right-angled or (b) equilateral triangle or (c) none of the two.

# 11.

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

# 12.

Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 100 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill