

## Assignment No. – Using Conditional Statements

Write a program in 'C' to perform the following tasks:

1. Check whether a given number is even or odd.
2. Check whether a given number is positive or negative or zero.
3. Find the smallest among three numbers.
4. Check whether a triangle can be formed with the given values for the angles.
5. Check whether a character is alphabet or not.
6. Check whether an alphabet is a vowel or consonant.
7. Input any character and check whether it is an alphabet, a digit or a special character.
8. Input the age of three people and determine the *oldest* and *youngest* among them.
9. Read the value of an integer  $m$  and display the value of  $n$  is 1 when  $m$  is larger than 0, 0 when  $m$  is 0 and -1 when  $m$  is less than 0.
10. Test whether the given number is divisible by both 11 & 13.
11. Evaluate the expression,  $X = (a - b) / (c - d)$  and give an error message when  $c == d$ .
12. Test whether a three digit number is a palindrome or not.
13. Check whether a given year is leap year or not.
14. Test whether a given number is divisible by 5 or not using ternary operator.
15. Find the largest among three numbers using ternary operator.
16. Accept a coordinate point in a XY plane and determine in which quadrant the point lies.
17. Calculate the roots of a quadratic equation.
18. Check whether a triangle is equilateral, isosceles or scalene by taking appropriate inputs.

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**Signature of the Faculty**