

Shri G. S. Institute of Technology and Science
Department of Computer Engineering
CO 10504: Introduction to Computer Programming
(Section F)
Lab Assignment No. #01

Learning Objectives:

- Recognize basic data types, variables, constants and operators.
- To develop the program using various conditional statements.

Questions:

1. Write a program to check whether a year is leap year or not.
2. Write a program to check whether a character is vowel or consonant.
3. Write a program to check whether the triangle is equilateral, isosceles or scalene triangle.
4. Write a program to find all roots of a quadratic equation.
5. Write a 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%

6. Write a program to create simple calculator using switch case performs Addition, Subtraction, Multiplication or Division.
7. If a four-digit number is input through the keyboard, write a program to obtain the sum of the first and last digit of this number.
8. A cashier has currency notes of denominations 100, 50, 20, 10, 5, 2 and 1. If an amount to be withdrawn is input through the keyboard, find the total number of currency notes of each denomination the cashier will have to give to the withdrawer.

Learning Outcomes:

Successfully recognized basic data types, variables, constants and operators.
Learned how to develop the program using various conditional statements.

