

**Assignment - 8    C Language LIVE Community Classes    MySirG**

1. Write a program to check whether a given number is divisible by 3 and divisible by 2.
2. Write a program to check whether a given number is divisible by 7 or divisible by 3.
3. Write a program to check whether a given number is positive, negative or zero.
4. Write a program to check whether a given year is a leap year or not.
5. Write a program to find greater among three numbers. If two or three numbers are identical and greatest among all then print it only once.
6. Write a program to check whether a given character is an alphabet (uppercase), an alphabet (lower case), a digit or a special character.
7. Write a program which takes the length of the sides of a triangle as an input. Display whether the triangle is valid or not.
8. Write a program which takes the month number as an input and display number of days in that month.
9. Write a program to find the nature of roots of a quadratic equation.
10. 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