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Department of Computer Science
CS 1011 –Programming Laboratory
Lab Sheet 04

1. Write a C++ program to check whether a user entered number is Even or Odd.
2. Write a C++ program to check whether an integer is positive, negative or zero, when an integer value is input by the user.
3. Write a C++ program finds out the largest number among two numbers entered by user and displays it with proper message.
4. Write a C++ program to check a user entered one character is a vowel or a consonant manually.
5. Write a C++ program finds out the largest number among three numbers entered by user and displays it with proper message.
6. Write a C++ program which will execute as follows:
 - Get any character value that enters by the user. (only **one** character)
 - Checks the character entered by the user and gives a message whether the entered character is an alphabetic lower case character, alphabetic upper case character, digit character or any other special character.
7. Write a C++ program where user should enter a year and the program checks whether the year entered by user is leap year or not.
NOTE: All years which are perfectly divisible by 4 are leap years except for century years (years ending with 00) which is leap year only if it is perfectly divisible by 400. For example: 2012, 2004, 1968 etc are leap year but, 1971, 2006 etc are not leap year. Similarly, 1200, 1600, 2000, 2400 are leap years but, 1700, 1800, 1900 etc are not.
8. Write a C++ program which will execute as follows:
 - Get the **score** value from the user. (it should be between 0 and 100)
 - According to the mark value entered by the user, give the **grade** and the appropriate **message** to be displayed, according to the following table.

Score	Grade	Message to be displayed
100	A	Superb
≥ 90	A	Excellent
≥ 80	B	Very Good
≥ 70	C	Good
≥ 60	D	Average
< 60	F	Weak