**Lab Tasks**

**Task# 1.**

Write a C program to accept two integers and check whether they are equal or not.

Test Data : 15 15Expected Output :   
Number1 and Number2 are equal

**Task# 2.**

Write a C program to check whether a given number is even or odd.

Test Data : 15  
Expected Output :   
15 is an odd integer

**Task# 3**.

Write a C program to 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.

Test Data : -5   
Expected Output :  
The value of n = -1

**Task# 4**.

Write a C program to find the eligibility of admission for a professional course based on the following criteria:   
Marks in Maths >=65  
Marks in Phy >=55  
Marks in Chem>=50  
Total in all three subject >=180  
or  
Total in Math and Subjects >=140

Test Data :   
Input the marks obtained in Physics :65   
Input the marks obtained in Chemistry :51   
Input the marks obtained in Mathematics :72  
Expected Output :  
The candidate is eligible for admission

**Task# 5.**

Write a C program to read roll no, name and marks of three subjects and calculate the total, percentage and division.

Test Data :   
Input the Roll Number of the student :784   
Input the Name of the Student :James   
Input the marks of Physics, Chemistry and Computer Application : 70 80 90  
Expected Output :  
Roll No : 784   
Name of Student : James   
Marks in Physics : 70   
Marks in Chemistry : 80   
Marks in Computer Application : 90   
Total Marks = 240   
Percentage = 80.00   
Division = First

**Task# 6.**

Write a C program to read temperature in centigrade and display a suitable message according to temperature state below :   
Temp < 0 then Freezing weather   
Temp 0-10 then Very Cold weather  
Temp 10-20 then Cold weather  
Temp 20-30 then Normal in Temp   
Temp 30-40 then Its Hot   
Temp >=40 then Its Very Hot

Test Data :   
42   
Expected Output :  
Its very hot.

**Task# 7.**

Write a C program to check whether a character is an alphabet, digit or special character.

Test Data :   
@  
Expected Output :  
This is a special character.

**Task# 8.**

Write a program in C to accept a grade and declare the equivalent description using switch :

|  |  |
| --- | --- |
| **Grade** | **Description** |
| E | Excellent |
| V | Very Good |
| G | Good |
| A | Average |
| F | Fail |

Test Data :   
Input the grade :A  
Expected Output :  
You have chosen : Average

**Task# 9.**

Write a program in C to read any Month Number in integer and display Month name in the word using switch.

Test Data :   
4  
Expected Output :  
April

**Task# 10.**

Write a program in C to read any Month Number in integer and display the number of days for this month using switch.   
Test Data :   
7   
Expected Output :  
Month have 31 days

**Task# 11.**

Write a program in C which is a Menu-Driven Program to compute the area of the various geometrical shape.   
Test Data :   
1  
5  
Expected Output :  
The area is : 78.500000

**Task# 12.**

Write a program in C which is a Menu-Driven Program to perform a simple calculation.

Test Data :   
10  
2  
3  
Expected Output :  
The Multiplication of 10 and 2 is: 20