C Conditional Statement

**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

**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

**3.** Write a C program to check whether a given number is positive or negative.   
Test Data : 15  
Expected Output :  
15 is a positive number

**4.**Write a C program to find whether a given year is a leap year or not.   
Test Data : 2016  
Expected Output :  
2016 is a leap year.

**5.**Write a C program to read the age of a candidate and determine whether it is eligible for casting his/her own vote.   
Test Data : 21  
Expected Output :  
Congratulation! You are eligible for casting your vote.

**6.**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

**7.** Write a C program to accept the height of a person in centimeter and categorize the person according to their height.   
Test Data : 135  
Expected Output :  
The person is Dwarf.

**8.**Write a C program to find the largest of three numbers.   
Test Data : 12 25 52  
Expected Output :  
1st Number = 12,        2nd Number = 25,        3rd Number = 52  
The 3rd Number is the greatest among three

**9.**Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies.   
Test Data : 7 9  
Expected Output :  
The coordinate point (7,9) lies in the First quadrant.

**10.** 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.

**11.**Write a C program to calculate the root of a Quadratic Equation.   
Test Data : 1 5 7  
Expected Output :  
Root are imaginary;  
No solution.

**12.**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

**13.**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.

**14.**Write a C program to check whether a triangle is Equilateral, Isosceles or Scalene.   
Test Data :  
50 50 60  
Expected Output :  
This is an isosceles triangle.

**15.**Write a C program to check whether a triangle can be formed by the given value for the angles.   
Test Data :  
40 55 65  
Expected Output :  
The triangle is not valid.