//////////////////////////**PART 2**///

1. Write a C# Sharp program to accept two integers and check whether they are equal or not.
Test Data :
Input 1st number: 5
Input 2nd number: 5
Expected Output :
5 and 5 are equal

2. Write a C# Sharp 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# Sharp program to check whether a given number is positive or negative.
Test Data : 14
Expected Output :
14 is a positive number

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

5. Write a C# Sharp 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# Sharp 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# Sharp program to accept a person's height in centimeters and categorize them according to their height.
Test Data : 135
Expected Output :
The person is Dwarf.

8. Write a C# Sharp program to find the largest of three numbers.
Test Data :
Input the 1st number :25
Input the 2nd number :63
Input the 3rd number :10
Expected Output :
The 2nd Number is the greatest among three

9. Write a C# Sharp program to accept a coordinate point in an XY coordinate system and determine in which quadrant the coordinate point lies.
Test Data :
Input the value for X coordinate :7
Input the value for Y coordinate :9
Expected Output :
The coordinate point (7,9) lies in the First quadrant.

10. Write a C# Sharp program to determine the eligibility for admission to 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# Sharp program to calculate the root of a quadratic equation.
Test Data :
Input the value of a : 1
Input the value of b : 5
Input the value of c : 7
Expected Output :
Root are imaginary;
No Solution.

12. Write a C# Sharp 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# Sharp program to read temperature in centigrade and display a suitable message according to the 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# Sharp 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# Sharp program to check whether a triangle can be formed by the given angles value.
Test Data :
40 55 65
Expected Output :
The triangle is not valid.

16. Write a C# Sharp program to check whether an alphabet letter is a vowel or a consonant.
Test Data :
k
Expected Output :

The alphabet is a consonant.

17. Write a C# Sharp program to calculate profit and loss on a transaction.
Test Data :
500 700
Expected Output :
You can book your profit amount : 200

18. Write a C# Sharp program to calculate and print the electricity bill of a customer. From the keyboard, the customer's name, ID, and unit consumed should be taken and displayed along with the total amount due.
The charge are as follow :

Unit	Charge/unit
upto 199	@1.20
200 and above but less than 400	@1.50
400 and above but less than 600	@1.80
600 and above	@2.00

If bill exceeds Rs. 400 then a surcharge of 15% will be charged and the minimum bill should be of Rs. 100/-
Test Data :
1001
James
800
Expected Output :

Customer IDNO :1001
Customer Name :James
unit Consumed :800
Amount Charges @Rs. 2.00 per unit : 1600.00
Surchage Amount : 240.00
Net Amount Paid By the Customer : 1840.00

19. Write a program in C# Sharp to accept a grade and declare the equivalent description :

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

20. Write a C# Sharp program to read any day number as an integer and display the name of the day as a word.
Test Data :
4
Expected Output :

Thursday

21. Write a program in C# Sharp to read any digit, display in the word.
Test Data :
4
Expected Output :
Four

22. Write C# Sharp program to read any Month Number in integer and display Month name.
Test Data :
4
Expected Output:
April

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

24. Write a C# Sharp program that calculates the area of geometrical shapes using a menu-driven approach.
Test Data :
Input your choice : 1
Input radius of the circle : 5
Expected Output :
The area is : 78.500000