# **300986134 Parth Chandgadhiya**

# **Code 01 [5]**

using System;

public class Program

{

public static void Main()

{

Console.WriteLine("Let`s see canm you vote?");

int n;

Console.WriteLine("please enter your age: ");

n = (Convert.ToInt32(Console.ReadLine()));

if (n >= 18)

{ Console.WriteLine("you can vote"); }

else

{ Console.WriteLine("you cannot vote"); }

Console.ReadLine();

}

}

# **Code 02[19]**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text.RegularExpressions;

namespace Rextester

{

public class Program

{

public static void Main(string[] args)

{

double a = 0;

double ss = 0;

double ss2;

double b;

double h;

double at;

double w;

double hr;

double ar;

double r;

double ac;

Console.WriteLine("To find area of square , enter 1\nTo find area of triangle , enter 2\nTo find area of rectangle , enter 3\nTo find area of circle ,enter 4");

Console.WriteLine("\nPlease enter a: ");

a = (Convert.ToDouble(Console.ReadLine()));

if (a == 1)

{

Console.WriteLine("\nPlease enter the side of square: ");

ss = (Convert.ToDouble(Console.ReadLine()));

ss2 = ss \* ss;

Console.WriteLine("\nthe area of square is {0}", ss2);

}

else if (a == 2)

{

Console.WriteLine("\nPlease enter base of triangle: ");

b = (Convert.ToDouble(Console.ReadLine()));

Console.WriteLine("\nPlease enter height of triangle: ");

h = (Convert.ToDouble(Console.ReadLine()));

at = 0.5 \* b \* h;

Console.WriteLine("\nthe area of triangle is {0}", at);

}

else if (a == 3)

{

Console.WriteLine("\nPlease enter width of rectangle: ");

w = (Convert.ToDouble(Console.ReadLine()));

Console.WriteLine("\nPlease enter height of rectangle: ");

hr = (Convert.ToDouble(Console.ReadLine()));

ar = w \* hr;

Console.WriteLine("\nthe area of triangle is {0}", ar);

}

else if (a == 4)

{

Console.WriteLine("\nPlease enter radius of circle: ");

r = (Convert.ToDouble(Console.ReadLine()));

ac = 3.14 \* r \* r;

Console.WriteLine("\nthe area of circle is {0}", ac);

}

else

{

Console.WriteLine("please enter correct choice");

}

Console.ReadLine();

}

}

}

**Code 03[21]**

using System;

public class Program

{

public static void Main()

{

Console.WriteLine("first fifteen natural nnumbers are:");

for (int i = 1; i <= 15; i++)

{

Console.WriteLine(i);

}

Console.ReadLine();

}

}

**code 04 [24]**

using System;

public class Program

{

public static void Main()

{

Console.WriteLine("first fifteen natural nnumbers are:");

int i2;

int n;

Console.WriteLine("please enter your number: ");

n = (Convert.ToInt32(Console.ReadLine()));

for (int i = 1; i <= n; i++)

{

i2 = i \* i \* i;

Console.WriteLine("The number is :{0} and cube of {1} is: {2} ", i, i, i2);

Console.ReadLine();

}

}

}

**code 05 [3]**

using System;

public class Program

{

public static void Main()

{

Console.WriteLine("Let`s check if number is Positve or Negative!!!");

double n;

Console.WriteLine("please enter your Number: ");

n = (Convert.ToDouble(Console.ReadLine()));

if (n >0)

{ Console.WriteLine("Number is positive."); }

else if (n < 0)

{ Console.WriteLine("Number is Negative."); }

else

{ Console.WriteLine("0 is neither Positive nor Negative it is neutral"); }

Console.ReadLine();

}

}

**code 06 [12]**

using System;

public class Program

{

public static void Main()

{

Console.WriteLine("Let`s check if formation of triangle is possible or not!!!");

double a;

double b;

double c;

double z;

Console.WriteLine("please enter your First angle a: ");

a = (Convert.ToDouble(Console.ReadLine()));

Console.WriteLine("please enter your Second angle b: ");

b = (Convert.ToDouble(Console.ReadLine()));

Console.WriteLine("please enter your Third angle c: ");

c = (Convert.ToDouble(Console.ReadLine()));

z = a + b + c;

if (z==180)

{ Console.WriteLine("\nGiven angles can form triangle"); }

else

{ Console.WriteLine("Formation of triangle is not possible for this value of angles\n try entering some other values"); }

Console.ReadLine();

}

}

**code 07 [4]**

using System;

public class Program

{

public static void Main()

{

Console.WriteLine("to find whether a given year is a leap year or not!");

int n;

Console.WriteLine("please enter Total numbers of day: ");

n = (Convert.ToInt32(Console.ReadLine()));

if (n==365)

{ Console.WriteLine("This is not leap year."); }

else if (n== 0)

{ Console.WriteLine("This is leap year"); }

else

{ Console.WriteLine("Please, check your number of days entered"); }

Console.ReadLine();

}

}

**code 08 [6]**

using System;

public class Program

{

public static void Main()

{

Console.WriteLine("categorizing on basis of height!");

double n;

Console.WriteLine("please enter Height in centimeters (cm): ");

n = (Convert.ToDouble(Console.ReadLine()));

if (n==155)

{ Console.WriteLine("You have average height."); }

else if (n > 155)

{ Console.WriteLine("Your height is above average height."); }

else

{ Console.WriteLine("Your height is smaller than average height."); }

Console.ReadLine();

}

}

**code 09 [11]**

using System;

using static System.Console;

public class Program

{

public static void Main()

{

Console.WriteLine("This code will read temperature in centigrade and display a suitablemessage according to temperature");

int t = 0;

Write("Please enter the temprature: ");

t = Convert.ToInt32(ReadLine());

if (t >= 40)

{

Write("\nVery hot\n");

}

else if (t >= 30)

{

Write("\nHot\n");

}

else if (t >= 20)

{

Write("\nNormal\n");

}

else if (t >= 10)

{

Write("\nCold weather\n");

}

else if (t >= 0)

{

Write("\nVery Cold weather\n");

}

else

{

Write("\nFreezing Weather\n");

}

Console.ReadLine();

}

}