1. Write a program to convert money from one currency into another. Accept the value of INR as input from the user and display the equivalent value of USD, EUR, and CNY. Use the following fixed currency rates: 100 Rs = 1.22 USD 100 Rs = 1.27 EUR 100 Rs = 8.79 CNY

using System;

namespace SimpleTest;

class Program{

static double InrToUsd(int amount){

return amount \* (1.22 / 100);

}

static double InrToEur(int amount){

return amount \* (1.27 / 100);

}

static double InrToCny(int amount){

return amount \* (8.79 / 100);

}

static void Main(string[] args){

Console.WriteLine("Convert INR to: \n 1.USD\n2.EUR\n3.CNY");

Console.WriteLine("Please Enter Amount in INR: ");

int userAmount = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Amount in USD: {0} USD", Program.InrToUsd(userAmount));

Console.WriteLine("Amount in EUR: {0} EUR", Program.InrToEur(userAmount));

Console.WriteLine("Amount in CNY: {0} CNY", Program.InrToCny(userAmount));

}

}

1. Find the salary of a person whose basic salary is 10,000 and add DA as 10% and HRA as 10 %. The taxes deducted from the annual salary are 5%. Find his annual income.

136,800

1. Write a program that **inputs a password** (one line with random text) and checks if the input **matches** the phrase "**s3cr3****t!P@ssw0rd**". If it matches, print "**Welcome**", otherwise "**Wrong password!**

using System;

namespace PassWord;

class Program {

static void Main(string[] args) {

Console.WriteLine("Enter Password: ");

string password = Console.ReadLine();

string setPassword = "s3cr3t!P@ssw0rd";

if(password == setPassword){

Console.WriteLine("Welcome");

}

else{

Console.WriteLine("Wrong password!");

}

}

}

1. Write a program that **inputs an integer** and checks if it is **below 100**, **between 100 and 200,** or **over 200**. Print the appropriate message as in the examples below.

using System;

namespace CheckNum;

class Program {

    static void Main(string[] args) {

        Console.WriteLine("Enter Number: ");

        int num = int.Parse(Console.ReadLine());

        if(num<100){

            Console.WriteLine("Less than 100");

        }

        else if(num>=100 && num<=200){

            Console.WriteLine("Between 100 and 200");

        }

        else{

            Console.WriteLine("Greater than 200");

        }

    }

}

5. Write a program that **inputs the speed** (decimal number) and prints **speed information**. For speed **up to 10** (inclusive), print "**slow**". For speed **over 10** and **up to 50**, print "**average**". For speed **over 50 and up to 150**, print "**fast**". For speeds **over 150 and up to 1000**, print "**ultra fast**". For higher speed, print "**extremely fast**".

using System;

namespace CheckSpeed;

class Program {

    static void Main(string[] args) {

        Console.WriteLine("Enter Number: ");

        double num = Convert.ToDouble(Console.ReadLine());

        if(num<=10){

            Console.WriteLine("slow");

        }

        else if(num>10 && num<=50){

            Console.WriteLine("average");

        }

        else if(num>50 && num<=150){

            Console.WriteLine("fast");

        }

        else if(num>150 && num<=1000){

            Console.WriteLine("ultrafast");

        }

        else{

            Console.WriteLine("extremely fast");

        }

    }

}

6.Get a character by asking the user to enter it and find whether it is a vowel or not. Show “It is a vowel” or “It is not a vowel”.

using System;

namespace CheckChar;

class Program {

    static void Main(string[] args) {

        string vowels = "aeiou";

        Console.WriteLine("Enter a letter: ");

        string userVowel = Console.ReadLine();

        string lowerVowel = userVowel.ToLower();

        bool isVowel = vowels.Contains(lowerVowel);

        if(isVowel){

            Console.WriteLine("It is a vowel");

        }

        else{

            Console.WriteLine("It is not a vowel");

        }

    }

}

1. Find XY by asking the user to enter the value of X and Y. (Don’t use library functions)

using System;

namespace CreatePower;

class Program {

static void Main(string[] args) {

Console.WriteLine("Enter X: ");

int x = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter Y: ");

int y = Convert.ToInt32(Console.ReadLine());

int power = 1;

for (int i = 1; i <= y;i++){

power \*= x;

}

Console.WriteLine(power);

}

}

1. Find the sum of the square of given odd values ranges 1- 99.

using System;

namespace SumOdds;

class Program {

static void Main(string[] args) {

int sum = 0;

for (int i = 1; i <= 99; i+=2){

sum += i \* i;

}

Console.WriteLine(sum);

}

}

1. Generate the multiplication table of a number entered by the user from 1 to 20. Ex: 12\*1=12 12\*2=24 12\*3=36….

using System;

namespace Multiplication;

class Program {

static void Main(string[] args) {

Console.WriteLine("Enter number:");

int userNum = Convert.ToInt32(Console.ReadLine());

for (int i = 1; i <= 20; i++){

Console.WriteLine("{0} x {1} = {2}",userNum,i,userNum\*i);

}

}

}

1. Write a program to print the following

1

22

333

4444

55555

666666

using System;

namespace Pattern;

class Program {

    static void Main(string[] args) {

        for (int i = 1; i <= 6;i++){

            for (int j = 1; j <= i;j++){

                Console.Write(i);

            }

            Console.WriteLine();

        }

    }

}

1. Write a program to check given number is prime or not. Input: 3

Output: It is a prime number

using System;

namespace Test;

class Program

{

    static void Main(string[] args)

    {

        Console.WriteLine("Enter Number: ");

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

        int count = 0;

        for (int i = 2; i < n;i++){

            if(n%i==0){

                count++;

            }

        }

            if (n >= 2 && count ==0)

            {

                Console.WriteLine("It is a prime number");

            }

            else

            {

                Console.WriteLine("It is not a prime number");

            }

    }

}

12. Write a program to get the day of the week for a specified date.  
  
**Sample Input and output:**  
Enter the date in the format (MM/dd/yyyy): 07/11/2022  
The day of the week for 7/11/2022 is Monday.

using System;

namespace Test;

class Program {

    static void Main(string[] args) {

        Console.WriteLine("Enter date in the format MM/dd/yyyy: ");

        DateTime d = Convert.ToDateTime(Console.ReadLine());

        string myDate = d.ToString("MM/dd/yyyy");

        string myday = d.ToString("ddddddddd");

        Console.WriteLine("The day of the week for {0} is {1}",myDate,myday);

    }

}

13. Write a program to print individual characters of the string in reverse order.  
  
**Sample Input and output:**Input the string: syncfusion software  
The characters of the string in reverse are:  
erawtfos noisufcnys

using System;

namespace Test;

class Program {

    static void Main(string[] args) {

        Console.WriteLine("Enter a text: ");

        string s = Console.ReadLine();

        for (int i = s.Length-1; i >=0 ;i--){

            Console.Write(s[i]);

        }

    }

}

14. Write a program to count the total number of vowels in a string.  
  
**Sample Input and output:**Input the string: Syncfusion  
The total number of vowels in the string is: 3

using System;

namespace Test;

class Program {

    static void Main(string[] args) {

        Console.WriteLine("Enter a text: ");

        string s = Console.ReadLine();

        string sLower = s.ToLower();

        string vowels = "aeiou";

        int count = 0;

        for (int i = 0; i < sLower.Length;i++){

            for (int j = 0; j < vowels.Length;j++){

                if(sLower[i]==vowels[j]){

                    count++;

                }

            }

        }

        Console.WriteLine(count);

    }

}

1. Write a program to prompt the user to get the name and print the welcome message.  
     
   **Requirements:**
   1. Getting the name from the user should be the main method.
   2. Printing the message “Welcome Name” in another method.
   3. Print the message “Have a nice day!” in another method.

**Sample input and output:**Enter the name: Baskaran  
  
Welcome Baskaran  
Have a nice day!

using System;

namespace Test;

class Program

{

    static void Welcome(string name)

    {

        Console.WriteLine("Welcome " + name);

    }

     static void NiceDay()

    {

        Console.WriteLine("Have a nice day!");

    }

    static void Main(string[] args)

    {

        Console.WriteLine("Enter the name: ");

        string theName = Console.ReadLine();

        Program.Welcome(theName);

        Program.NiceDay();

    }

}