1. Multiple Of 100

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class Div\_100\_Check

{

public static void Main(string[] args)

{

int No1;bool result;

Console.WriteLine("Enter a Number");

No1=Convert.ToInt32(Console.ReadLine());

result=(No1%100==0)?true:false;

Console.WriteLine(result);

}

}

}

2. Write a program that takes a string and returns the number (count) of vowels contained within it.

namespace AssignmentSails

{

public class CountOfVowels

{

public static void Main(string[] args)

{

string str;

int count = 0;

Console.WriteLine("Enter a String");

str = Console.ReadLine();

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

{

if(str[i]=='a'||str[i]=='e'||str[i]=='i'||str[i]=='o'||str[i]=='u'|| str[i] == 'A' || str[i] == 'E' || str[i] == 'I' || str[i] == 'O' || str[i] == 'U')

{

count++;

}

}

Console.WriteLine("Count of Vowels is {0}",count);

}

}

}

3.Write a program that recursively finds the sum of the first n natural numbers.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

internal class SumOfNums

{

public static void Main(string[] args)

{

int sum = 0;

int no;

Console.WriteLine("Enter A number to Find the Sum of them");

no=Convert.ToInt32(Console.ReadLine());

for(int i=0;i<=no;i++)

{

sum = sum + i;

}

Console.WriteLine("The Sum of the Numbers is {0}",sum);

}

}

}

4. Write a Program for checking whether the given number is a even number or not.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class EvenOddCheck

{

public static void Main(string[] args)

{

int number;

Console.WriteLine("Enter a Number");

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

if(number%2==0)

{

Console.WriteLine("Even Number");

}

else

{

Console.WriteLine("Odd Number");

}

}

}

}

5. Write a program to check whether the given number is divisible by 7

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class MulOf7

{

public static void Main(string[] args)

{

int number;

Console.WriteLine("Enter a Number");

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

if(number%7==0)

{

Console.WriteLine("Multiple Of 7");

}

else

{

Console.WriteLine("Not Multiple Of 7");

}

}

}

}

#6. Write a program to find maximum between two numbers.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class GreatOf2

{

public static void Main(string[] args)

{

int no1, no2;

Console.WriteLine("Enter 2 No.s To find the Maximum No.");

no1=Convert.ToInt32(Console.ReadLine());

no2 = Convert.ToInt32(Console.ReadLine());

if(no1>no2)

{

Console.WriteLine("{0} is the Maximum Number ",no1);

}

else

{

Console.WriteLine("{0} is the Maximum Number ", no2);

}

}

}}

7. Write a program to find maximum between three numbers.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class MaxOf3

{

public static void Main(string[] args)

{

int x, y, z;

Console.WriteLine("Enter 3 Numbers to find the Max");

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

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

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

//Procedure 1

/\*if(x>y)

{

if(x>z)

{

Console.WriteLine("{0} is the greatest than {1} and {2}",x,y,z);

}

}

else if (y > x)

{

if (y > z)

{

Console.WriteLine("{0} is the greatest than {1} and {2}", y, x, z);

}

else

{

Console.WriteLine("{0} is the greatest than {1} and {2}", z, x, y);

}

}\*/

//Procedure 2

if(x>y&&x>z)

{

Console.WriteLine("{0} is the greatest than {1} and {2}", x, y, z);

}

else if(y>x&&y>z)

{

Console.WriteLine("{0} is the greatest than {1} and {2}", y, x, z);

}

else

{

Console.WriteLine("{0} is the greatest than {1} and {2}", z, x, y);

}

}

}}

8. Write a program to check whether a number is negative, positive or zero.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class NumberCheck

{

public static void Main(string[] args)

{

int number;

Console.WriteLine("Enter a Number");

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

if(number>0)

{

Console.WriteLine("{0} is a Positive Number",number);

}

else if(number<0)

{

Console.WriteLine("{0} is a Negative Number",number);

}

else if(number==0)

{

Console.WriteLine("It is {0}", number);

}

}

}

}

9. Write a program to check whether a number is divisible by 5 and 11 or not.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class MulOf5\_11

{

public static void Main(string[] args)

{

int x;

Console.WriteLine("Enter a number");

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

if (x % 5 == 0 && x % 11 == 0) //Example of if and else if

{

Console.WriteLine("{0} is Multiple of 5 and 11", x);

}

else if (x % 5 == 0 && x % 11 != 0)

{

Console.WriteLine("{0} is Multiple of 5 but not of 11", x);

}

else if (x % 5 != 0 && x % 11 == 0)

{

Console.WriteLine("{0} is Multiple of 11 but not of 5", x);

}

else

{

Console.WriteLine("{0} is not Multiple of 5 and 11", x);

}

}

}

}

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

namespace AssignmentSails

{

public class EvenOddCheck

{

public static void Main(string[] args)

{

int number;

Console.WriteLine("Enter a Number");

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

if(number%2==0)

{

Console.WriteLine("Even Number");

}

else

{

Console.WriteLine("Odd Number");

}

}}}

11. Write a program to check whether a year is leap year or not.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class LeapYear {

public static void Main(string[] args)

{

int year;

Console.WriteLine("Enter a Year between 1900 to 2022");

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

if( (year%4 ==0&&year%100!=0)|| year%400==0)

{

Console.WriteLine("{0} is a Leap Year",year);

}

else

{

Console.WriteLine("{0} is not a Leap Year", year);

}

}

}

}

12. Write a program to check whether a character is alphabet or not.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{public class CharCheck

{

public static void Main(string[] args)

{

char ch;

Console.WriteLine("Enter a Character");

ch=Console.ReadKey().KeyChar;

Console.WriteLine();

if((ch>='A'&&ch<='Z')||(ch>='a'&&ch<='z'))

{

Console.WriteLine("{0} is a Letter",ch);

}

else

{

Console.WriteLine("{0} is not a Letter", ch);

}

}

}

}

13. Write a program to input any alphabet and check whether it is vowel or consonant.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class VowelCheck

{

public static void Main(string[] args)

{

Console.WriteLine("Enter a letter to check whether a vowel or not?");

char ch = Console.ReadKey().KeyChar;

Console.WriteLine();

switch(ch)

{

case 'a':

case 'A': Console.WriteLine("Vowel");break;

case 'e':

case 'E': Console.WriteLine("Vowel");break;

case 'i':

case 'I': Console.WriteLine("Vowel"); break;

case 'o':

case 'O': Console.WriteLine("Vowel"); break;

case 'u':

case 'U': Console.WriteLine("Vowel"); break;

default : Console.WriteLine("Consonent"); break;

}

}

}

}

14. Write a program to input any character and check whether it is alphabet, digit or special character.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class KeyCheck

{

public static void Main(string[] args)

{

char ch;

Console.WriteLine("Enter a Character");

ch = Console.ReadKey().KeyChar;

Console.WriteLine();

if ((ch >= 'A' && ch <= 'Z') || (ch >= 'a' && ch <= 'z'))

{

Console.WriteLine("{0} is a Letter", ch);

}

else if(ch>='0'&&ch<='9')

{

Console.WriteLine("{0} is a Number", ch);

}

else

{

Console.Out.Flush();

Console.WriteLine("{0} is a Special Character", ch);

}

}

}

}

15. Write a program to print number of days in a month using switch case

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class DaysInMonth

{

public static void Main(string[] args)

{

string month;

Console.WriteLine("Enter a Full name of Month as January, February, March, etc.,");

month=Console.ReadLine();

switch(month)

{

case "January":

case "March":

case "May":

case "July":

case "August":

case "October":

case "December":

Console.WriteLine("31 Days");break;

case "February": Console.WriteLine("29 Days For Leap Year and 28 Days Of Non Leap Year");break;

case "April":

case "June":

case "September":

case "November":

Console.WriteLine("30 Days");break;

default: Console.WriteLine("Invalid Month");break;

}

}

}

}

16. Write a program to print first 10 numbers

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class PrintFirst10

{

public static void Main(string[] args)

{

for(int i=1; i<=10;i++)

{

Console.WriteLine(i);

}

}

}

}

#### 17. What will be the output of the following code snippet:

#### using System;

#### public class Program

#### {

#### public static void Main(string[] args)

#### {

#### Console.WriteLine(Math.Round(6.5));

#### Console.WriteLine(Math.Round(11.5));

#### }

#### }

#### a) 6 12

#### b) 6 11

#### c) 7 12

#### d) 7 11

Output : A

#### 18. What will be the output of the following code snippet:

#### using System;

#### public class Program

#### {

#### 

#### public static void Main(string[] args)

#### {

#### int num1 = 20;

#### int num2 = 30;

#### num1 ^= num2 ^= num1 ^= num2;

#### Console.WriteLine(num1 + ","+ num2);

#### }

#### }

#### a) 20,30

#### b) 0,20

#### c) 20,10

#### d) 10,50

Output : B

#### 19. Write a program in C# Sharp to display the cube of the number up to given an integer.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class CubeOfNo

{

public static void Main(string[] args)

{

int no, cube = 1;

Console.WriteLine("Enter a No. to find the cube");

no=Convert.ToInt32(Console.ReadLine());

for(int i=1;i<=3;i++)

{

cube = cube \* no;

}

Console.WriteLine(cube);

}

}

}

20. Write a program in C# Sharp to display the pattern like right angle triangle with a number. [Go to the editor](https://www.w3resource.com/csharp-exercises/for-loop/index.php#editorr)  
The pattern like :

1

12

123

1234

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class Pattern

{

public static void Main(string[] args)

{

for(int i=1;i<=4;i++)

{

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

{

Console.Write(j);

}

Console.WriteLine();

}

}

}

}

#### 21. Write a C# Sharp program to determine whether a given number is prime or not.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentSails

{

public class PrimeCheck

{

public static void Main(string[] args)

{

int no,count=0;

Console.WriteLine("Enter No. to Check whether it is prime No. or not");

no=Convert.ToInt32(Console.ReadLine());

for (int i = 1; i <= no; i++)

{

if(no%i==0)

{

count++;

}

}

if(count==2)

{

Console.WriteLine("{0} is Prime No.",no);

}

else

{

Console.WriteLine("{0} is Not Prime No.",no);

}

}

}

}

22. Write a program in C# Sharp to find LCM of any two numbers using HCF.

#### 23. Write a program in C# Sharp to convert a binary number into a decimal number using math function

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class BinaryToDecimal

{

public static void Main(string[] args)

{

int binary, dec=0 ;

int power = 1;int rem;

Console.WriteLine("Enter a Binary Number");

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

while(binary>0)

{

rem = binary % 10;

dec = dec + rem \* power;

power = power \* 2;

binary = binary / 10;

}

Console.WriteLine(dec);

}

}

#### }

Using Math Function;

namespace AssignmentII

{

public class BinaryToDecimal

{

public static void Main(string[] args)

{

int binary, dec=0 ;

int power = 1;int rem, i=0;

Console.WriteLine("Enter a Binary Number");

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

while(binary>0)

{

rem = binary % 10;

dec = dec + rem \* Convert.ToInt32(Math.Pow(2, i));

binary = binary / 10;

i++;

}

Console.WriteLine(dec);

}

}

}

#### 24. Write a program in C# Sharp to print a string in reverse order

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class StrReverse

{

public static void Main(string[] args)

{

string str;

string rev = "";

Console.WriteLine("Enter a string");

str =""+ Console.ReadLine();

int len = str.Length;

for (len--; len >= 0; len--)

{

rev = rev + str[len];

}

Console.WriteLine(rev);

}

}

}

25. Write a program which gives output for 6 table.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class Table6

{

public static void Main(string[] args)

{

int no = 6;

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

{

Console.WriteLine("{0} X {1} = {2}",no,i,no\*i);

}

}

}

}

26. Write a program To Print the factorial of a given number

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class Factorial

{

public static void Main(string[] args)

{

int no, fact = 1;

Console.WriteLine("Enter a Number");

no=Convert.ToInt32(Console.ReadLine());

for(int i=1;i<=no;i++)

{

fact=fact\*i;

}

Console.WriteLine("{0} is the factorial of {1}",fact,no);

}

}

}

27. Write a program To Print the Fibonacci Series

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class Febonacci

{

public static void Main(string[] args)

{

int i=1 , j= 1,k=0;

Console.Write(i+" "+j+" ");

for(i=1;k<=50;)

{

k = i + j;

i = j;

j = k;

Console.Write(k+" ");

}

}

}

}

28. Write a program To check whether a given number is an Armstrong number

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class Armstrong

{

public static void Main(string[] args)

{

int no, arm=0;

int rem, number;

Console.WriteLine("Enter a number to check whether it is armstrong or not?");

no=Convert.ToInt32(Console.ReadLine());

number = no;

while(no>0)

{

rem = no % 10;

arm = arm + rem \* rem \* rem;

no = no / 10;

}

if(number==arm)

{

Console.WriteLine("Armstrong");

}

else

{

Console.WriteLine("Not Armstrong");

}

}

}

}

29. Write a program To Print Numbers in Triangle Format.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class Triangle\_For

{

public static void Main(string[] args)

{

for (int i = 1; i <= 4; i++)

{

int j;

int x;

for (x = i; x <= 4; x++)

{

Console.Write(" ");

}

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

{

Console.Write(j + " ");

}

for (int k = j; k >= 1; k--)

{

Console.Write(k + " ");

}

Console.WriteLine(" ");

}

}

}

}

30. Program To Check a given number is a palindrome No. or Not.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace AssignmentII

{

public class PalinCheck

{

public static void Main(string[] args)

{

int no, palin=0;

int num, rem=1;

Console.WriteLine("Enter a number to check Palindrome or Not");

no=Convert.ToInt32(Console.ReadLine());

num = no;

while(no>0)

{

rem = no % 10;

palin = palin\*10+rem;

no = no / 10;

}

if(num==palin)

{

Console.WriteLine("Palindrom No.");

}

else

{

Console.WriteLine("Not Palindrom No.");

}

}

}

}