//Multiplication

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace MULTIPLICATION

{

class Program

{

static void Main(string[] args)

{

// Write a program to print multiplication table of given number

int num;

Console.Write("Enter the Number :");

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

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

{

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

}

Console.ReadLine();

// Console.Readkey();

}

}

}

//ascending

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ASCENDING

{

class Program

{

static void Main(string[] args)

{

//Write a program in take 10 integer in an array and sort in ascending order.

int i;

int[] arr = new int[30];

Console.WriteLine("enter the number of values");

int n = Convert.ToInt16(Console.ReadLine());

//read the values

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

{

Console.Write("enter the number " + i + ":");

arr[i] = Convert.ToInt16(Console.ReadLine());

}

//store the values

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

{

for (int j = 1; j <= n - 1; j++)

{

if (arr[j] > arr[j + 1])

{

int temp = arr[j];

arr[j] = arr[j + 1];

arr[j + 1] = temp;

}

}

}

//Display the Ascending values one by one

Console.Write("Ascending Sort : ");

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

{

Console.Write(arr[i] + " ");

}

Console.ReadKey();

}

}

}

//pattern1

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace PATTERN1

{

class Program

{

static void Main(string[] args)

{

// to print the given pattern as follows based on the number of lines as input.

//1 2 3 4 5

//1 2 3 4

//1 2 3

//1 2

//1

//

for(int i = 5; i >=0; i--)

{

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

{

Console.Write(j);

}

Console.WriteLine();

}

Console.ReadLine();

}

}

}

//Armstrong

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ARMSTRONG

{

class Program

{

static void Main(string[] args)

{

//Write a program to find whether a given 3 digit number is an Armstrong number or not.

int n, r, sum = 0, temp;

Console.Write("Enter the Number= ");

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

temp = n;

while (n > 0)

{

r = n % 10;

sum = sum + (r \* r \* r);

n = n / 10;

}

if (temp == sum)

Console.Write("Armstrong Number.");

else

Console.Write("Not Armstrong Number.");

Console.ReadLine();

}

//Console.ReadLine();

}

}

//largest

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace LARGEST

{

class Program

{

static void Main(string[] args)

{

// Write a function to get largest number in the given array.

int i = 0;

int large = 0;

int[] arr = new int[5];

Console.WriteLine("enter array of elements:");

for (i = 0; i < arr.Length; i++)

{

Console.Write("Element[" + (i + 1) + "]: ");

arr[i] = int.Parse(Console.ReadLine());

}

large= arr[0];

for (i = 1; i < arr.Length; i++)

{

if (large < arr[i])

{

large = arr[i];

}

}

Console.WriteLine("large element is:" + large);

Console.ReadLine();

}

}

}

//prime-n

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace PRIME\_N

{

class Program

{

static void Main(string[] args)

{

// Write a program to generate the first n prime numbers in the series

//2,3,5,7,11,..., 17

int num, i, ctr, stno, enno;

Console.Write("Find the prime numbers within a range of numbers:\n");

Console.Write("Input starting number of range: ");

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

Console.Write("Input ending number of range : ");

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

Console.Write("The prime numbers between {0} and {1} are : \n", stno, enno);

for (num = stno; num <= enno; num++)

{

ctr = 0;

for (i = 2; i <= num / 2; i++)

{

if (num % i == 0)

{

ctr++;

break;

}

}

if (ctr == 0 && num != 1)

Console.Write("{0} ", num);

}

Console.Write("\n");

Console.ReadKey();

}

}

}

//Armstrong

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ARMSTRONG

{

class Program

{

static void Main(string[] args)

{

//Write a program to find whether a given 3 digit number is an Armstrong number or not.

int n, r, sum = 0, temp;

Console.Write("Enter the Number= ");

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

temp = n;

while (n > 0)

{

r = n % 10;

sum = sum + (r \* r \* r);

n = n / 10;

}

if (temp == sum)

Console.Write("Armstrong Number.");

else

Console.Write("Not Armstrong Number.");

Console.ReadLine();

}

//Console.ReadLine();

}

}

//reverse

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace REVERSE

{

class Program

{

static void Main(string[] args)

{

int n, r = 0;

Console.Write("Enter the Number to reverse= ");

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

while (n > 0)

{

r = r \* 10;

r = r + n % 10;

n = n / 10;

}

Console.Write("reverse of a number is " + r);

Console.ReadLine();

}

}

}

//array

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp6

{

class Program

{

static void Main(string[] args)

{

//program to remove duplicate elements from the array of integers.

int[] arr = new int[100];

int num;

int i, j, k;

Console.WriteLine("enter the size of an array:");

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

//reads element of an array

Console.WriteLine("enter the elements of an array");

for (i = 0; i < num; i++)

{

arr[i] = Convert.ToInt32(Console.ReadLine());

}

//finding all duplicate elements in an array

for (i = 0; i < num; i++)

{

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

{

if (arr[i] == arr[j])

{

for (k = j; k < num; k++)

{

arr[k] = arr[k + 1];

}

num--;

j--;

}

}

}

// Print array after deleting duplicate elements

Console.WriteLine("Array elements after deleting duplicates : ");

for (i = 0; i < num; i++)

{

Console.WriteLine(arr[i]);

}

Console.ReadLine();

}

}

}