**Array code1:**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

Console.WriteLine ("Enter number of elements:");

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

int[] arr = new int[num];

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

{

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

}

for(int i = num-1 ; i >= 0 ; i--)

{

Console.WriteLine(arr[i]);

}

}

}

**Array code2:**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int sum=0;

Console.WriteLine ("Enter number of elements:");

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

int[] arr = new int[num];

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

{

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

sum += arr[i];

}

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

{

Console.WriteLine(sum);

}

}

}

**Array 3:**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int sum=0;

Console.WriteLine ("Enter number of elements:");

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

int[] arr1 = new int[num];

int[] arr2 = new int[num];

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

{

arr1[i] = Convert.ToInt32(Console.ReadLine());

}

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

{

arr2[i] = arr1[i];

Console.WriteLine (arr2[i]);

}

}

}

**Array 4:**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int sum=0;

Console.WriteLine ("Enter number of elements:");

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

int[] arr1 = new int[num];

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

{

arr1[i] = Convert.ToInt32(Console.ReadLine());

}

Console.WriteLine("Enter the index of array to delete: ");

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

int[] arr2 = new int[num-1];

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

{

if(i!=del)

{

arr2[i] = arr1[i];

}

Console.WriteLine (arr2[i]);

}

}

}

**Array 5:**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int sum=0, hgst=0;

double avg;

int[] arr1 = new int[10];

for(int i = 0 ; i < 10 ; i++)

{

Console.WriteLine ($"Enter marks of Student {i+1}:");

arr1[i] = Convert.ToInt32(Console.ReadLine());

sum += arr1[i];

if(arr1[i]>hgst)

{

hgst = arr1[i];

}

}

avg=(double)sum/10;

Console.WriteLine($"Average marks of 10 students is {avg}");

Console.WriteLine($"Highest marks of 10 students is {hgst}");

}

}

**String code1:**

using System;

namespace Assigment1

{

internal class Program

{

static void Main(string[] args)

{

int count = 0;

Console.WriteLine("Enter words: ");

string str = Console.ReadLine();

Console.WriteLine("Enter letter to search: ");

char srch = Convert.ToChar(Console.ReadLine());

string lstr = str.ToLower();

srch.ToString().ToLower();

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

{

if(lstr[i] == srch)

{

count++;

}

}

Console.WriteLine($"The letter {srch} has {count} occurences in your words {str}");

}

}

}

**String code2:**

using System;

namespace Assigment1

{

internal class Program

{

static void Main(string[] args)

{

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

string str = Console.ReadLine();

char[] astr = new char[10];

astr = str.ToCharArray();

Array.Sort(astr);

Console.WriteLine(astr);

}

}

}

**String code3:**

using System;

namespace Assigment1

{

internal class Program

{

static void Main(string[] args)

{

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

string str = Console.ReadLine();

str = str.Substring(0,5);

Console.WriteLine(str);

}

}

}

**String code4:**

using System;

namespace Assigment1

{

internal class Program

{

static void Main(string[] args)

{

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

string str = Console.ReadLine();

int ind = str.IndexOf("Kashid");

Console.WriteLine(ind);

}

}

}

**String code5:**

using System;

namespace Assigment1

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter Word 1: ");

string str1 = Console.ReadLine();

Console.WriteLine("Enter Word 2: ");

string str2 = Console.ReadLine();

//Ignore case:

Console.WriteLine(str1.Equals(str2, StringComparison.OrdinalIgnoreCase));

Console.WriteLine(str1.ToLower() == str2.ToLower());

//Consider case:

Console.WriteLine(str1.Equals(str2));

}

}

}

**Control Structures Code1:**

using System;

namespace Assigment1

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter a purchase price: ");

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

if(prPrice > 10000){

Console.WriteLine("Your Purchase is Disapproved!");

}

else{

Console.WriteLine("Your Purchase is Approved!");

}

}

}

}

**Control Code2:**

using System;

using System.Collections.Generic;

namespace Assigment1

{

internal class Program

{

static void Main(string[] args)

{

int val, sum = 0, count = 0;

do{

Console.WriteLine("Enter Temperature in Farenheit: \nPress 0 to end program:");

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

if(val!=0)

{

if(val>=130 || val<=20)

{

Console.WriteLine("Enter a valid temperature. \n");

}

else

{

sum += val;

count++;

}

}

}while(val!=0);

Console.WriteLine($"Number of entered temperatures are:{count} and Average is {sum/count}F");

}

}

}