Assignment 1:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment\_day\_13

{

class Simple\_array

{

public void display(params int[] value)

{

Console.WriteLine("Given Array : ");

foreach (int i in value)

{

Console.Write(i+"\t");

}

}

}

internal class Program

{

static void Main(string[] args)

{

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

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

int[] arr = new int[n];

Console.Write("Enter "+n+" elements : ");

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

{

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

}

Simple\_array s1 = new Simple\_array();

s1.display(arr);

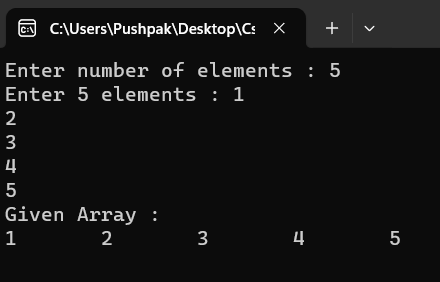
Console.ReadKey();

}

}

}

Output:



Assignment 2:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment\_day\_13

{

interface Student

{

void input(int s\_roll, string s\_name, string s\_city, int s\_age, int s\_per);

}

interface result

{

void display();

}

class info : Student, result

{

int g\_roll, g\_age, g\_per;

string g\_name, g\_city;

public void input(int s\_roll, string s\_name, string s\_city, int s\_age, int s\_per)

{

g\_roll = s\_roll;

g\_name = s\_name;

g\_city = s\_city;

g\_age = s\_age;

g\_per = s\_per;

}

public void display()

{

Console.WriteLine(

"\nRoll No. : "+g\_roll+

"\nName : "+g\_name+

"\nCity : "+g\_city+

"\nAge : "+g\_age+

"\nPercent : "+g\_per

);

if( g\_per > 60)

{

Console.WriteLine("Grade A");

}

else if( g\_per > 50 && g\_per < 60)

{

Console.WriteLine("Grade B");

}

else if(g\_per > 40 && g\_per < 50)

{

Console.WriteLine("Grade C");

}

else

{

Console.WriteLine("Fail");

}

}

}

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter Roll No. : ");

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

Console.Write("Enter Name : ");

string name = Console.ReadLine();

Console.Write("Enter City : ");

string city = Console.ReadLine();

Console.Write("Enter Age : ");

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

Console.Write("Enter Percent : ");

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

info s1 = new info();

s1.input(roll, name, city, age, per);

s1.display();

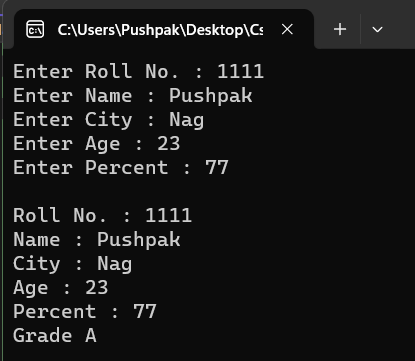
Console.ReadKey();

}

}

}

Output:



Assignment 3:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment\_day\_13

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter String : ");

string str = Console.ReadLine();

Console.Write("1.Count\n2.To Upper\n3.To Lower\n4.Concat\n5.Print char using Index" +

"\n6.Print index using char\nEnter Your Choice : ");

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

switch(ch)

{

case 1:

Console.WriteLine("\nLength of string : "+str.Length);

break;

case 2:

Console.WriteLine("\nIn Upper Case : "+str.ToUpper());

break;

case 3:

Console.WriteLine("\nIn Lower Case : " + str.ToLower());

break;

case 4:

Console.Write("\nEnter String to concat : ");

string str2 = Console.ReadLine();

Console.WriteLine("\nConcat two String :"+String.Concat(str+" "+str2));

break;

case 5:

Console.Write("\nEnter index number : ");

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

Console.WriteLine("\nChar at index " + n + " : " + str[n]);

break;

case 6:

Console.Write("\nEnter char : ");

string chr = Console.ReadLine();

Console.WriteLine("\n"+ch + " is present at " + str.IndexOf(chr));

break;

}

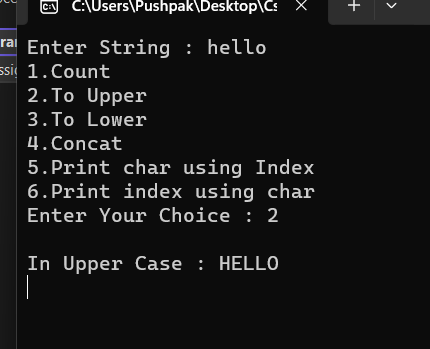
Console.ReadKey();

}

}

}

Output:



Assignment 4:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment\_day\_13

{

namespace Student

{

class admission

{

public int g\_age, g\_per;

public string g\_name, g\_city;

public void input(string i\_name, string i\_city, int age, int per)

{

g\_name = i\_name;

g\_city = i\_city;

g\_age = age;

g\_per = per;

}

}

}

namespace College

{

class result : Student.admission

{

public void grade()

{

Console.WriteLine("\nName : " + g\_name +

"\nCity : " + g\_city +

"\nAge : " + g\_age +

"\nPercent : " + g\_per);

if(g\_per > 60)

{

Console.WriteLine("Grade A");

}

else if(g\_per > 50 && g\_per < 60)

{

Console.WriteLine("Grade B");

}

else if(g\_per > 40 && g\_per < 50)

{

Console.WriteLine("Grade C");

}

else

{

Console.WriteLine("Fail");

}

}

}

}

class Program

{

static void Main(string[] args)

{

Console.Write("Enter Name : ");

string name = Console.ReadLine();

Console.Write("Enter City : "); ;

string city = Console.ReadLine();

Console.Write("Enter Age : ");

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

Console.Write("Enter Percent : ");

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

College.result c1 = new College.result();

c1.input(name, city, age, per);

c1.grade();

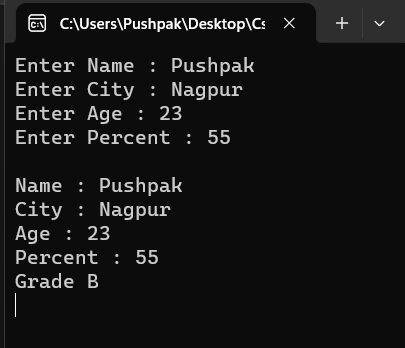
Console.ReadKey();

}

}

}

Output:



Assignment 5:

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment\_day\_13

{

class A

{

public virtual void display(int a\_age)

{

Console.WriteLine("Age : "+a\_age);

}

}

class B : A

{

public override void display(int b\_name)

{

Console.WriteLine("Roll No. : "+b\_name);

}

}

class C : A

{

public override void display(int c\_per)

{

Console.WriteLine("Percent : "+c\_per);

}

}

class Program

{

static void Main(string[] args)

{

Console.Write("Enter Age : ");

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

Console.Write("Enter Roll No. : ");

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

Console.Write("Enter Percent : ");

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

A a1 = new A();

A a2 = new B();

A a3 = new C();

Console.WriteLine();

a1.display(age);

a2.display(roll);

a3.display(per);

Console.ReadKey();

}

}

}

Output:

