--- Sum and average of element of array

using System;

namespace arrays

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter the number ");

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

int[] num = new int[n];

Console.WriteLine("Enter the values");

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

{

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

}

int sum = 0;

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

{

sum = sum + num[i];

}

Console.Write("The sum is =");

Console.WriteLine(sum);

int avg;

int q = num.Length;

avg = sum / q;

Console.Write("The average is =");

Console.WriteLine(avg);

}

}

}

----Inheritance

using System;

namespace Inheritance

{

public class Member

{

string name;

int age;

string phonenumber;

string address;

double salary;

public virtual void Getdeatils()

{

Console.WriteLine("Enter the name");

name = Console.ReadLine();

Console.WriteLine("Enter age");

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

Console.WriteLine("Enter Phone Number");

phonenumber = Console.ReadLine();

Console.WriteLine("Enter the address");

address = Console.ReadLine();

Console.WriteLine("Enter salary");

salary = double.Parse(Console.ReadLine());

}

public virtual void DisplayDeatils()

{

Console.WriteLine("Name : " + name);

Console.WriteLine("Age : " + age);

Console.WriteLine("Phone Number : " + phonenumber);

Console.WriteLine("Address : " + address);

}

public void printSalary()

{

Console.WriteLine("Salary : " + salary);

}

}

public class Employee : Member

{

public string specilization = "CSE";

public string department = "adm";

}

public class Manager : Member

{

public string specilization = "BTECH";

public string department = "HR";

}

class Program

{

static void Main(string[] args)

{

Employee emp = new Employee();

Manager mg = new Manager();

Console.WriteLine("Employee details");

emp.Getdeatils();

emp.DisplayDeatils();

emp.printSalary();

Console.WriteLine("Manager Details");

mg.Getdeatils();

mg.DisplayDeatils();

mg.printSalary();

}

}

}

Sum of matrices

using System;

public class array

{

public static void Main()

{

int i,j,n;

int[,] arr= new int[10,10];

int[,] b= new int[10,10];

int[,] c = new int[10,10];

Console.Write("addition of two Matrices :\n");

Console.Write("Input the size of the square matrix");

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

Console.Write("Input elements in the first matrix :\n");

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

{

for(j=0;j<n;j++)

{

Console.Write("element - [{0},{1}] : ",i,j);

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

}

}

Console.Write("Input elements in the second matrix :\n");

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

{

for(j=0;j<n;j++)

{

Console.Write("element - [{0},{1}] : ",i,j);

b[i,j] = Convert.ToInt32(Console.ReadLine());

}

}

Console.Write("\nThe First matrix is :\n");

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

{

Console.Write("\n");

for(j=0;j<n;j++)

Console.Write("{0}\t",arr[i,j]);

}

Console.Write("\nThe Second matrix is :\n");

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

{

Console.Write("\n");

for(j=0;j<n;j++)

Console.Write("{0}\t",b[i,j]);

}

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

for(j=0;j<n;j++)

crr1[i,j]=arr[i,j]+b[i,j];

Console.Write("\nThe Addition of two matrix is : \n");

for(i=0;i<n;i++){

Console.Write("\n");

for(j=0;j<n;j++)

Console.Write("{0}\t",c[i,j]);

}

}

}