**Name** **-** Sushant Balu Patil **Roll No**  **-** 62

**Class –** T.Y.BTech **Batch -** T3

**Experiment No : 1**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace hello\_\_world

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Hello World !");

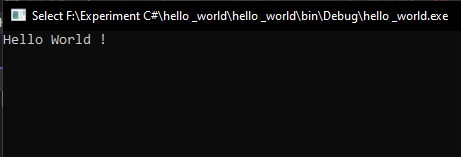
Console.ReadLine();

}

}

}

**Output:**

****

**Name** **-** Sushant Balu Patil **Roll No**  **-** 62

**Class –** T.Y.BTech **Batch -** T3

**Experiment No : 2**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Name

{

internal class Program

{

string Full\_Name = "Sushant Balu Patil";

static void Main(string[] args)

{

Program Name = new Program();

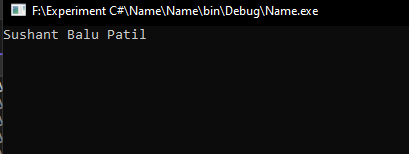
Console.WriteLine(Name.Full\_Name);

Console.ReadLine();

}

}

}

**Output:**

**Name** **-** Sushant Balu Patil **Roll No**  **-** 62

**Class –** T.Y.BTech **Batch -** T3

**Experiment No : 3**

**Name** **-** Sushant Balu Patil **Roll No**  **-** 62

**Class –** T.Y.BTech **Batch -** T3

**Experiment No : 4**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Calculator

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("================ Calculator ===================");

Console.WriteLine("Enter First Number : ");

int num1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter Second Number : ");

int num2 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("================================================");

Console.WriteLine("1.Addition\t\n2.Substraction\t\n3.Multiplication\t\n4.Division");

Console.WriteLine("================================================");

Console.WriteLine("Enter Your Choice : ");

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

switch(ch)

{

case 1:Console.WriteLine("Addition Of Two Number Is : " + (num1+num2));

break;

case 2:Console.WriteLine("Substraction Of Two Number is : "+(num1-num2));

break;

case 3:Console.WriteLine("Multiplication Of Two Number is : " + (num1 \* num2));

break;

case 4:Console.WriteLine("Division Of Two NUmber is : "+(num1 / num2));

break;

default: Console.WriteLine("Enter valid Entry !");

break;

}

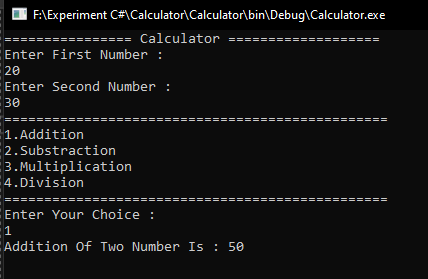
Console.ReadLine();

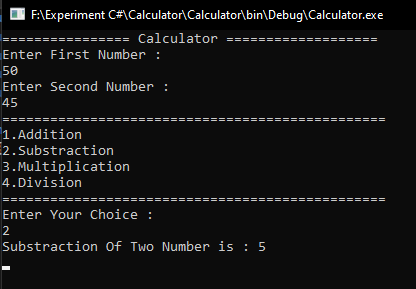
}

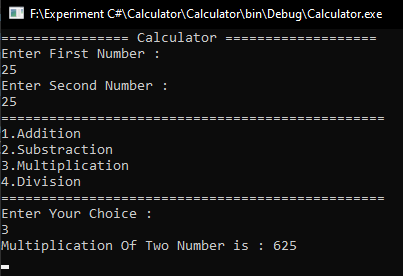
}

}

**Output :**

****

****

****

**Name** **-** Sushant Balu Patil **Roll No**  **-** 62

**Class –** T.Y.BTech **Batch -** T3

**Experiment No : 5**

**1. if-else**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Control\_Statements

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter Your Age : ");

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

if (age > 18 ) {

Console.WriteLine("You can Open Your Linkdin Account.");

}

else

{

Console.WriteLine("You can not Open Your Linkdin Account.");

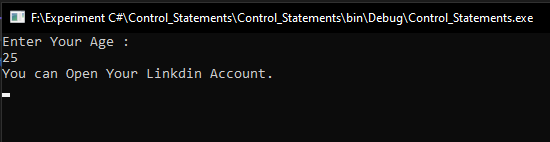
}

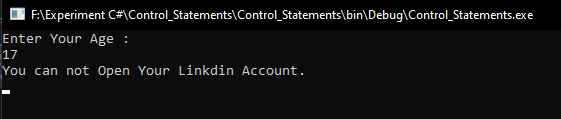
Console.ReadLine();

}

}

}

**Output :**

****

**2.** **Nested if else**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Control

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter Your Marks : ");

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

if(Marks >=90 ) {

Console.WriteLine("You Got A Grade.");

}

else if(Marks >= 75)

{

Console.WriteLine("You Got B Grade. ");

}

else if (Marks >= 60)

{

Console.WriteLine("You Got C Grade. ");

}

else

{

Console.WriteLine("You Got D Grade. ");

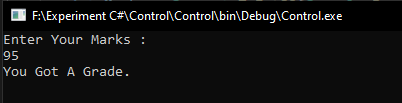
}

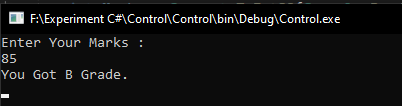
Console.ReadLine();

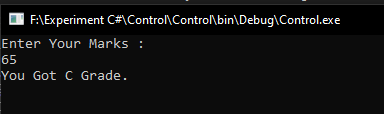
}

}

}

**Output :**

****

****

**3.while**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Pattern

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter Number Of Row :");

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

int i = 0;

while(n > i) {

int space = 0;

while(space<n-i-1) {

Console.Write(" ");

space++;

}

int j = 0;

while(j < i+1) {

Console.Write("\* ");

j++;

}

Console.WriteLine();

i++;

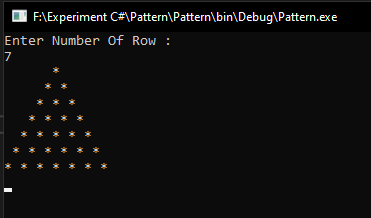
}

Console.ReadLine();

}

}

}

**Output :**

**4.Do while**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Do\_While

{

internal class Program

{

static void Main(string[] args)

{

int i = 1;

do

{

Console.WriteLine(i);

i++;

}

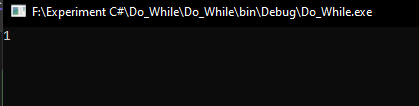
while (i > 10);

Console.ReadLine();

}

}

}

**Output :**

**5. Switch**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Calculator

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("================ Calculator ===================");

Console.WriteLine("Enter First Number : ");

int num1 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter Second Number : ");

int num2 = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("================================================");

Console.WriteLine("1.Addition\t\n2.Substraction\t\n3.Multiplication\t\n4.Division");

Console.WriteLine("================================================");

Console.WriteLine("Enter Your Choice : ");

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

switch(ch)

{

case 1:Console.WriteLine("Addition Of Two Number Is : " + (num1+num2));

break;

case 2:Console.WriteLine("Substraction Of Two Number is : "+(num1-num2));

break;

case 3:Console.WriteLine("Multiplication Of Two Number is : " + (num1 \* num2));

break;

case 4:Console.WriteLine("Division Of Two NUmber is : "+(num1 / num2));

break;

default: Console.WriteLine("Enter valid Entry !");

break;

}

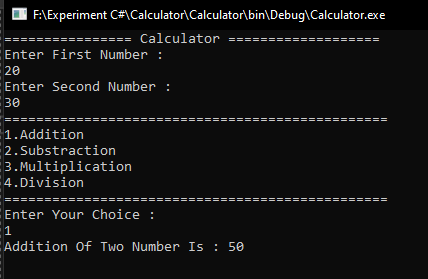
Console.ReadLine();

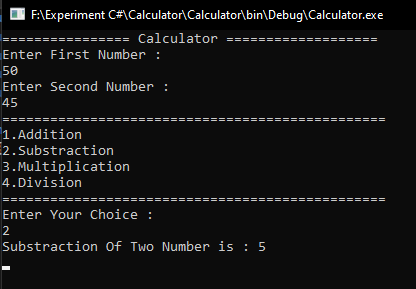
}

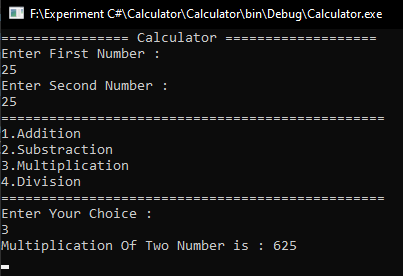
}

}

**Output :**

****

****

****

**6. For Loop**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace For\_Loop

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter nmber of row : ");

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

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

{

for(int Space = 0; Space < n-i-1; Space++)

{

Console.Write(" ");

}

for (int j = 0; j < i + 1; j++)

{

Console.Write("\* ");

}

Console.WriteLine();

}

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

{

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

{

Console.Write(" ");

}

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

{

Console.Write("\* ");

}

Console.WriteLine();

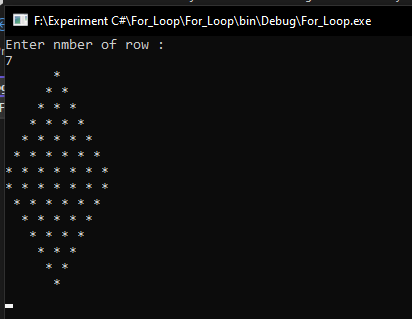
}

Console.ReadLine();

}

}

}

**Output :**

**7.** **Foreach**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace @foreach

{

internal class Program

{

static void Main(string[] args)

{

int[] ar = { 1, 2, 3, 4, 5, 6, 7, 8, 9 };

foreach (int i in ar)

{

Console.WriteLine(i);

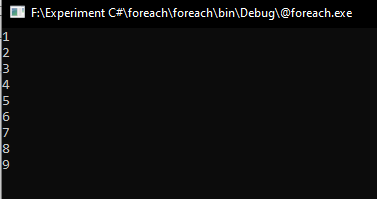
}

Console.ReadLine();

}

}

}

**Output :**

**Name** **-** Sushant Balu Patil **Roll No**  **-** 62

**Class –** T.Y.BTech **Batch -** T3

**Experiment No : 6**

1. Static class

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Static

{

public static class customer

{

static int customerid;

static string customername;

static string customerorder;

static int orderprice;

public static void customerdetails()

{

Console.WriteLine("Enter Product Id : ");

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

Console.WriteLine("Enter Customer Name : ");

customername = Convert.ToString(Console.ReadLine());

Console.WriteLine("Enter Customer Order : ");

customerorder = Convert.ToString(Console.ReadLine());

Console.WriteLine("Enter Order Price : ");

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

Console.WriteLine("---------------------------------------------------");

}

public static void orderdescount()

{

int descount;

Console.WriteLine("Hello" + " " + customername + " " + "Your Order Name Is :" + customerorder, "\n");

Console.WriteLine(customername + "Your Order Price Is :" + orderprice, "\n");

descount = orderprice / 10;

Console.WriteLine("Your Order Descount Is :" + descount, "\n");

int finalprice;

finalprice = orderprice - descount;

Console.WriteLine("Your Final Price Is :" + finalprice, "\n");

Console.WriteLine("Thank You For Visit Our Store..");

}

}

internal class Program

{

static void Main(string[] args)

{

customer.customerdetails();

customer.orderdescount();

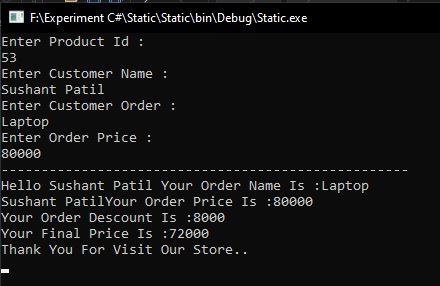
Console.ReadLine();

}

}

}

**Output :**

****

**2. Partial class**

**Program 1.**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Main\_Class

{

public partial class Class1

{

public void FirstName()

{

Console.WriteLine("hello, Anna..");

}

}

}

**Program 2.**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Main\_Class

{

public partial class Class1

{

public void FullName()

{

Console.WriteLine("hello, Sushant Patil");

}

}

}

**Main Program.**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Main\_Class

{

internal class Program

{

static void Main(string[] args)

{

Class1 obj = new Class1();

obj.FirstName();

obj.FullName();

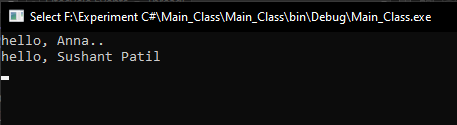
Console.ReadLine();

}

}

}

**Output :**

****

**Name** **-** Sushant Balu Patil **Roll No**  **-** 62

**Class –** T.Y.BTech **Batch -** T3

**Experiment No : 7**

**1. single dimensional:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace single\_dimension

{

internal class Program

{

static void Main(string[] args)

{

int[] ar =new int[5];

for(int i=0; i <= 4; i++)

{

Console.WriteLine("Enter Element At Position "+(i+1));

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

}

Console.WriteLine("------------------------------------------");

for(int i = 0; i <= 4; i++)

{

Console.WriteLine("Value At Arr["+i+"] = " + ar[i]);

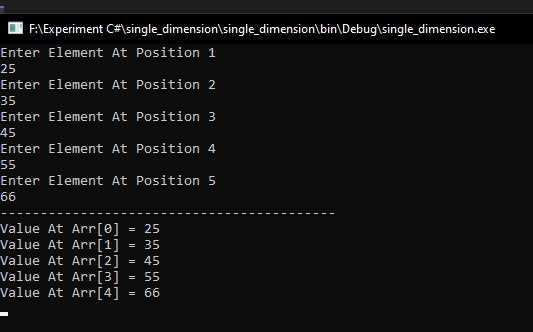
}

Console.ReadLine();

}

}

}

**Output :**

**2. Multidimensional :**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Multidimension

{

internal class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter Matrix size : ");

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

int m = n;

int[,] a = new int[n, m];

Console.WriteLine("enter element one by one : ");

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

{

for (int j = 0; j < m; j++)

{

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

}

}

Console.WriteLine("element is given below : ");

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

{

for (int j = 0; j < m; j++)

{

Console.Write(a[i, j] + " ");

}

Console.WriteLine(" ");

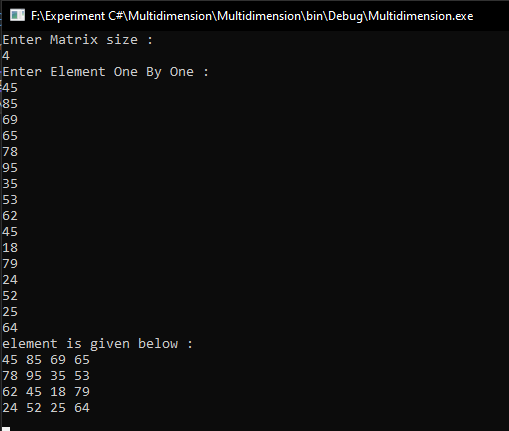
}

Console.ReadKey();

}

}

}

**Output:**

**3.Jagged Array.**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace jagged\_array

{

internal class Program

{

static void Main(string[] args)

{

int[][] arr = new int[3][]

{

new int[] { 11,21,56,78},

new int[] { 11,21,23,67,89},

new int[] { 11,21,}

};

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

{

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

{

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

}

System.Console.WriteLine();

}

Console.ReadLine();

}

}

}