

TAAZAA TRAINING

ASSIGNMENT – 9

SUBMITTED BY- DAS SUKHDEV

FILE HANDLING

```
using System;
using FileHandling.Files;
namespace FileHandling
{
    class Program
    {
        static void Main(string[] args)
        {
            FileHandler filehandler=new FileHandler();
            filehandler.WriteToFile("I am Sukhdev");
            filehandler.ReadFromFile();
        }
    }
}
```

PROGRAM.CS

FILE HANDLER.CS

```
using System;
using System.IO;
namespace FileHandling.Files
{
    public class FileHandler
    {
        public void WriteToFile(string name)
        {
            FileStream f=new FileStream("training.txt",FileMode.Create);
            StreamWriter s=new StreamWriter(f);
            s.WriteLine(name);
            s.Close();
            f.Close();
        }
    }
}
```

```

        public void ReadFromFile()
        {
            FileStream fileStream=new FileStream("training.txt",FileMode.Open)
;

            StreamReader reader=new StreamReader(fileStream);
            string fileData=reader.ReadLine();
            Console.WriteLine(fileData);
            reader.Close();
        }
    }
}

```

OUTPUT OF FILE HANDLING

The screenshot shows the Visual Studio Code interface with the FileHandler.cs file open. The code in the file is as follows:

```

1  using System;
2  using System.IO;
3  namespace FileHandling.Files
4  {
5
6      public class FileHandler
7      {
8
9          public void WriteToFile(string name)
10         {
11             FileStream f=new FileStream("training.txt",FileMode.Create);
12             StreamWriter s=new StreamWriter(f);
13             s.WriteLine(name);
14             s.Close();
15             f.Close();
16         }
17
18         public void ReadFromFile()
19         {
20             FileStream fileStream=new FileStream("training.txt",FileMode.Open);
21             StreamReader reader=new StreamReader(fileStream);
22             string fileData=reader.ReadLine();
23             Console.WriteLine(fileData);
24             reader.Close();
25         }
26     }
27 }

```

The terminal output at the bottom shows the command `dotnet run` being executed, which results in the output `PS C:\Users\hp\Desktop\TaazaaTraining-2021\TaazaaTraining-office Assignment\Assignment-9\FileHandling> dotnet run`. The status bar at the bottom indicates the file is `FileHandling.csproj` and the terminal is running on `PowerShell`.

ADVANCE DELEGATE

```
using System;
namespace day8_0.Adv_Delegate
{
    public class Study
    {
        public string Name(string N)
        {
            return N;
        }
        public void PNumber()
        {
            Console.WriteLine("9873451324");
        }
        public bool studyStatus(string str)
        {
            return true;
        }
    }
}
```

STUDY.CS

```
using System;
using day8_0.Adv_Delegate;
//delegate string NameDelegate(string str);
//delegate void PhoneDelegate();
//delegate bool studyStatusDelegate();
namespace day8_0
{
    class Program
    {
        static void Main()
        {
            Study study=new Study();
            /* NameDelegate nameDelegate=new NameDelegate(study.Name);
            string name=nameDelegate.Invoke("Sukhdev");
            System.Console.WriteLine(name);*/

            //funtion delegate
            Func<string,string> func=study.Name;
            string name=func("Sukhdev");
        }
    }
}
```

```

        Console.WriteLine(name);

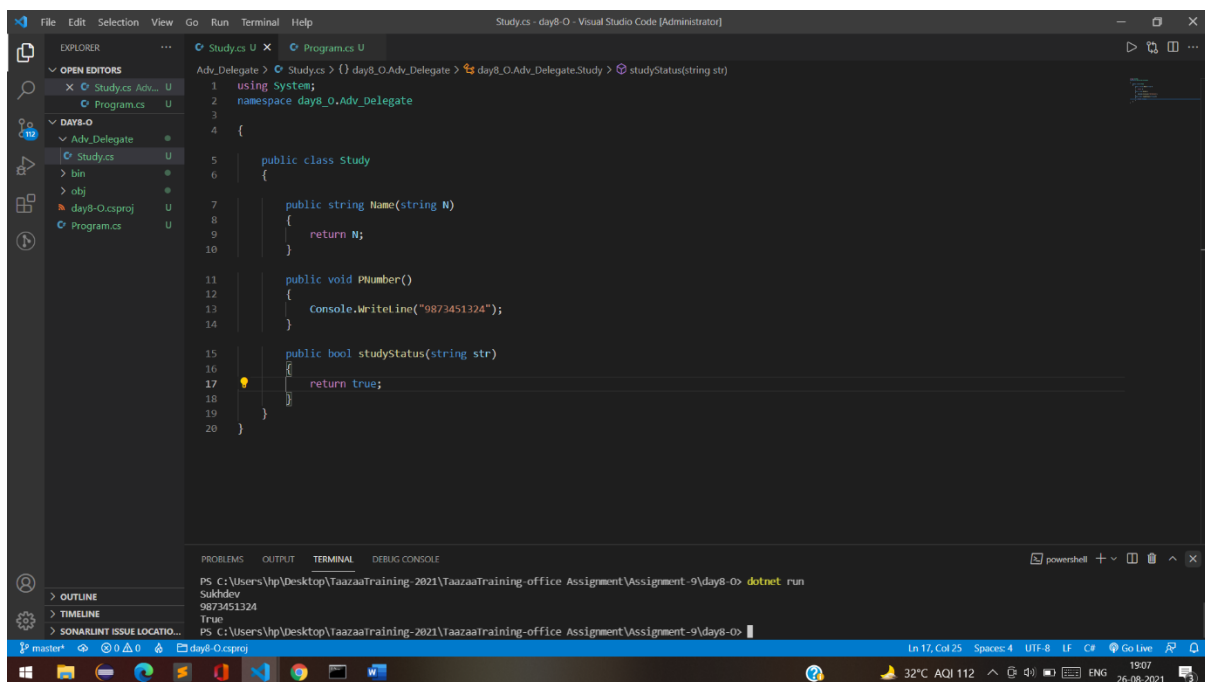
        //action delegate
        Action action=study.PNumber; //we will angular bracket when we have parameters
        //action.Invoke(); first way
        action(); //second way

        //predicate delegate
        Predicate<string> predicate=study.studyStatus;
        bool b=predicate("sukhdev");
        System.Console.WriteLine(b);
    }
}

```

PROGRAM.CS

OUTPUT OF ADVANCE DELEGATE



EXCEPTION HANDLING

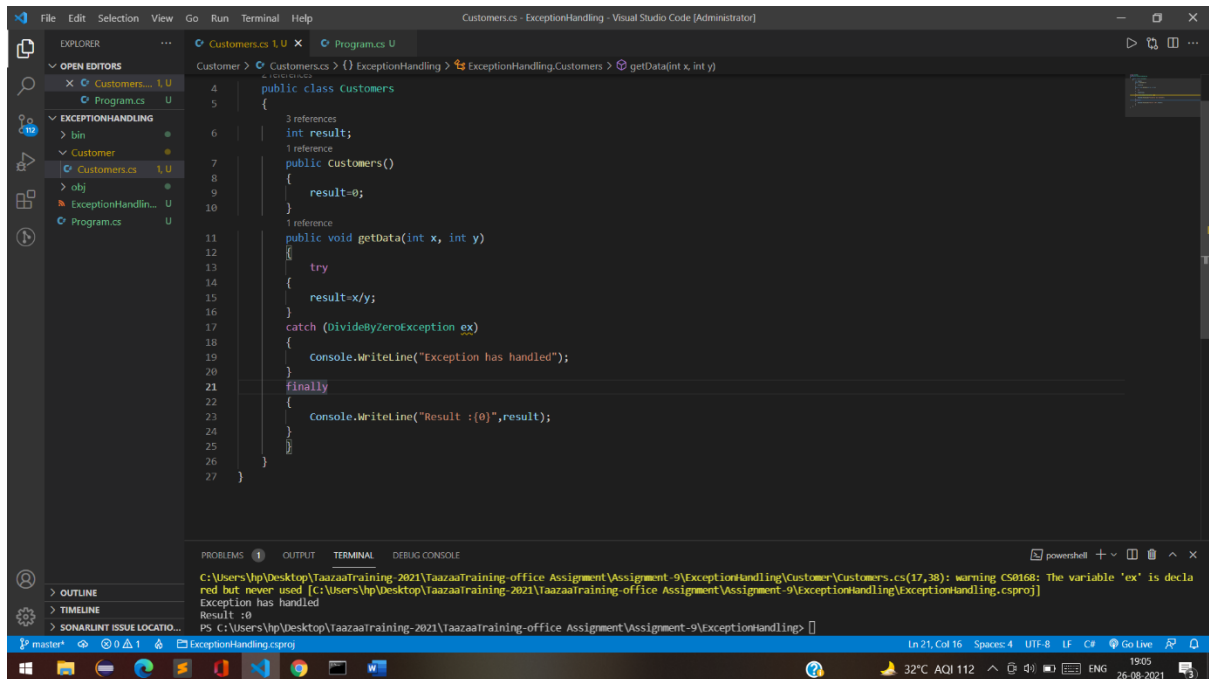
```
using System;
namespace ExceptionHandling
{
    public class Customers
    {
        int result;
        public Customers()
        {
            result=0;
        }
        public void getData(int x, int y)
        {
            try
            {
                result=x/y;
            }
            catch (DivideByZeroException ex)
            {
                Console.WriteLine("Exception has handled");
            }
            finally
            {
                Console.WriteLine("Result :{0}",result);
            }
        }
    }
}
```

CUSTOMERS.CS

```
using System;
using ExceptionHandling;
namespace ExceptionHandling
{
    class Program
    {
        static void Main()
        {
            Customers customers=new Customers();
            customers.getData(10,0);
        }
    }
}
```

PROGRAM.CS

OUTPUT OF EXCEPTION HANDLING



The screenshot displays the Visual Studio Code interface with a C# project named 'ExceptionHandling'. The Explorer sidebar on the left shows the project structure, including 'bin', 'obj', and 'ExceptionHandling'. The main editor window shows the 'Customers.cs' file with the following code:

```
4 public class Customers
5 {
6     3 references
7     int result;
8     1 reference
9     public Customers()
10    {
11        result=0;
12    }
13    1 reference
14    public void getData(int x, int y)
15    {
16        try
17        {
18            result=x/y;
19        }
20        catch (DivideByZeroException ex)
21        {
22            Console.WriteLine("Exception has handled");
23        }
24    }
25    finally
26    {
27        Console.WriteLine("Result :{0}",result);
28    }
29 }
```

The bottom panel shows the 'TERMINAL' output, which includes a warning from the compiler (CS0168) and the program's execution output:

```
C:\Users\hp\Desktop\TaazaTraining-2021\TaazaTraining-office Assignment\Assignment-9\ExceptionHandling\Customer\Customers.cs(17,38): warning CS0168: The variable 'ex' is declared but never used [C:\Users\hp\Desktop\TaazaTraining-2021\TaazaTraining-office Assignment\Assignment-9\ExceptionHandling\ExceptionHandling.csproj]
Exception has handled
Result :0
PS C:\Users\hp\Desktop\TaazaTraining-2021\TaazaTraining-office Assignment\Assignment-9\ExceptionHandling>
```

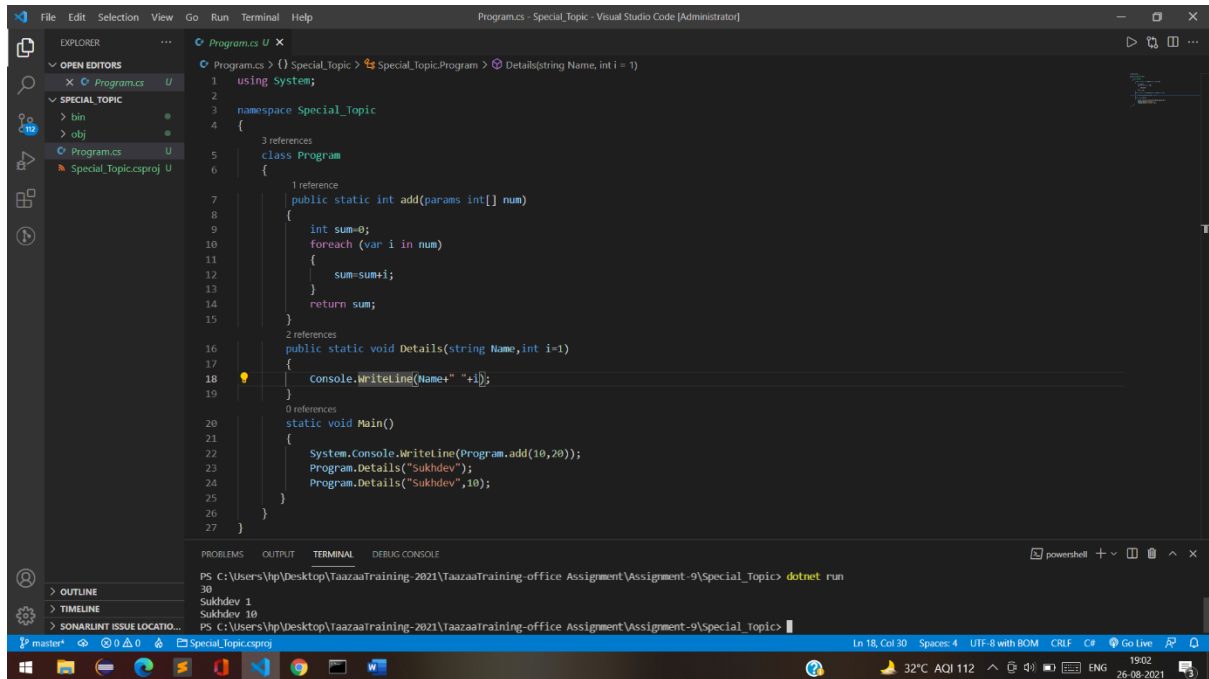
The status bar at the bottom indicates the file is 'ExceptionHandling.csproj' at line 21, column 16, with 4 spaces, UTF-8 encoding, and LF line endings. The system tray shows the date as 26-08-2021 and the time as 19:05.

PARAMS AND OPTIONAL

```
using System;

namespace Special_Topic
{
    class Program
    {
        public static int add(params int[] num)
        {
            int sum=0;
            foreach (var i in num)
            {
                sum=sum+i;
            }
            return sum;
        }
        public static void Details(string Name,int i=1)
        {
            Console.WriteLine(Name+" "+i);
        }
        static void Main()
        {
            System.Console.WriteLine(Program.add(10,20));
            Program.Details("Sukhdev");
            Program.Details("Sukhdev",10);
        }
    }
}
```

OUTPUT OF PARAMS AND OPTIONAL PARAMETERS



The screenshot shows the Visual Studio Code editor with a C# file named `Program.cs` open. The code defines a namespace `Special_Topic` and a class `Program`. It includes two methods: `add` which takes an array of integers `params int[] num` and returns their sum, and `Details` which takes a string `Name` and an optional integer `int i = 1`. The `Main` method calls `add` with an array `{10, 20}` and `Details` with the string `"Sukhdev"`. The terminal at the bottom shows the command `dotnet run` being executed, resulting in the output: `Sukhdev 1` followed by `Sukhdev 10`. The status bar at the bottom indicates the file is in UTF-8 encoding with BOM and CRLF line endings.

```
1 using System;
2
3 namespace Special_Topic
4 {
5     3 references
6     class Program
7     {
8         1 reference
9         public static int add(params int[] num)
10        {
11            int sum=0;
12            foreach (var i in num)
13            {
14                sum=sum+i;
15            }
16            return sum;
17        }
18        2 references
19        public static void Details(string Name,int i=1)
20        {
21            Console.WriteLine(Name+" "+i);
22        }
23        0 references
24        static void Main()
25        {
26            System.Console.WriteLine(Program.add(10,20));
27            Program.Details("Sukhdev");
28            Program.Details("Sukhdev",10);
29        }
30    }
31 }
```

PS C:\Users\hp\Desktop\TaazaTraining-2021\TaazaTraining-office Assignment\Assignment-9\Special_Topic> dotnet run

Sukhdev 1

Sukhdev 10

PS C:\Users\hp\Desktop\TaazaTraining-2021\TaazaTraining-office Assignment\Assignment-9\Special_Topic>