#### Day 2

Name: DHANAPAL Date: 20/08/2024

## Program 1:

```
Code:
```

```
Program.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Prgm1
 class Program
   static void Main(string[] args)
     Console.WriteLine("Enter a account id");
     int id = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter type");
     string type = Console.ReadLine();
    Console.WriteLine("Enter Account balance");
    double balance = Convert.ToDouble(Console.ReadLine());
    Console.WriteLine("Enter Withdraw amt");
     double withdraw = Convert.ToDouble(Console.ReadLine());
    Account ac = new Account(id,type,balance);
     ac.GetDetails();
     if (ac.withdraw(withdraw))
```

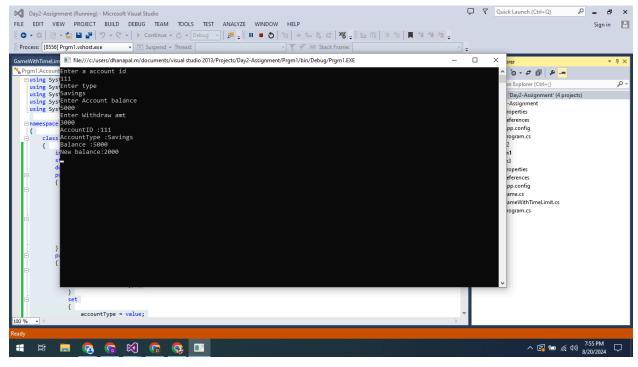
```
Console.WriteLine("New balance:"+ac.balance_out);
     else
      Console.WriteLine("Insufficient balance");
    Console.ReadKey();
Account.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Prgm1
 class Account
   int id;
   string accountType;
   double balance;
   public intidout
    get
      return id;
```

```
set
   id = value;
public string actype_out
 get
   return accountType;
 set
   accountType = value;
public double balance_out
 get
   return balance;
 set
   balance = value;
public Account (int id, string type, double balance)
 this.id = id;
```

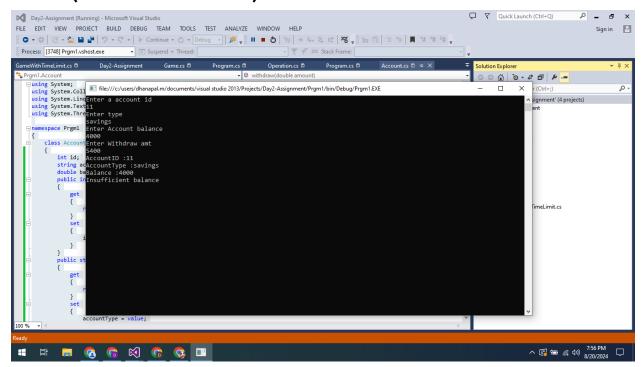
```
this.accountType = type;
 this.balance = balance;
public string GetDetails()
 Console.WriteLine("AccountID:" + id);
 Console.WriteLine("AccountType:" + accountType);
 Console.WriteLine("Balance:" + balance);
 return null;
public bool withdraw(double amount)
 if(balance>=amount)
   balance = balance - amount;
   return true;
 else
   return false;
```

#### Output:

### Case 1(Balance > = Withdraw):



### Case 2 (Balance < Withdraw):



### **Program 2**

#### Code:

```
Program.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace Pgm2
 class Program
   static void Main(string[] args)
     Console.WriteLine("Enter the operator");
     string op = Console.ReadLine();
     Operation obj = new Operation();
     if (op.Equals("+"))
      Console.WriteLine("Enter two operands for Addition");
      int x = Convert.ToInt32(Console.ReadLine());
      int y = Convert.ToInt32(Console.ReadLine());
      int sol=obj.add(x, y);
      Console.WriteLine("Result of "+x+" + "+y+" is "+sol);
     else if (op.Equals("-"))
      Console.WriteLine("Enter two operands for Subtraction");
      int x = Convert.ToInt32(Console.ReadLine());
```

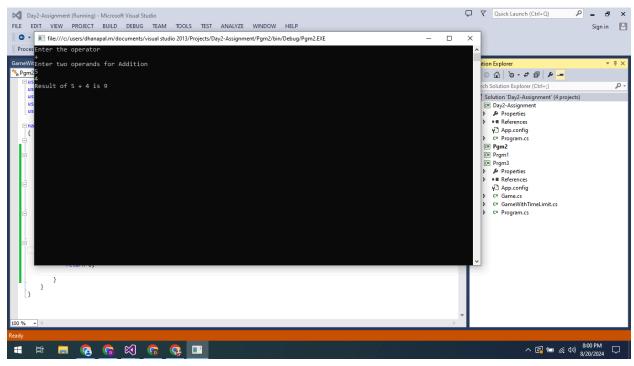
```
int y = Convert.ToInt32(Console.ReadLine());
 int sol
   = obj.sub(x, y);
 Console.WriteLine("Result of " + x + " - " + y + " is " + sol);
else if (op.Equals("*"))
 Console.WriteLine("Enter two operands for Multiplication");
 int x = Convert.ToInt32(Console.ReadLine());
 int y = Convert.ToInt32(Console.ReadLine());
 int sol = obj.mul(x, y);
 Console.WriteLine("Result of " + x + " * " + y + " is " + sol);
else if (op.Equals("/"))
 Console.WriteLine("Enter two operands for Divison");
 double x = Convert.ToDouble(Console.ReadLine());
 double y = Convert.ToDouble(Console.ReadLine());
 double sol;
 obj.div(x, y,out sol);
 Console.WriteLine("Result of " + x + " / " + y + " is " + sol);
else
 Console.WriteLine("Please enter a valid operator");
Console.ReadKey();
```

### Operation.cs

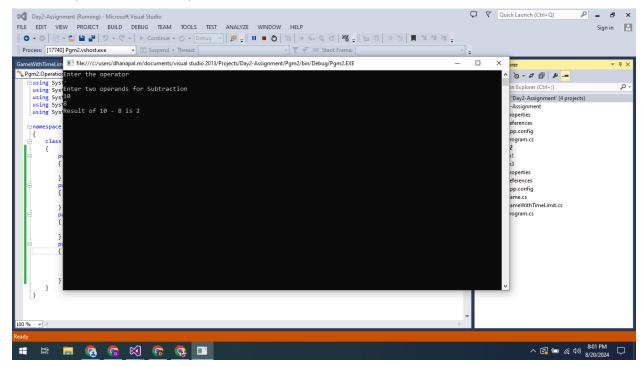
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Pgm2
 class Operation
   public int add(int a,int b)
     return a + b;
   public int sub (int a, int b)
     return a - b;
   public int mul(int a, int b)
     return a * b;
   public double div(double a, double b, out double sol)
     sol=a/b;
     return 0;
```

#### Output:

# Case 1 (Addition):



### Case 2(Subtraction):



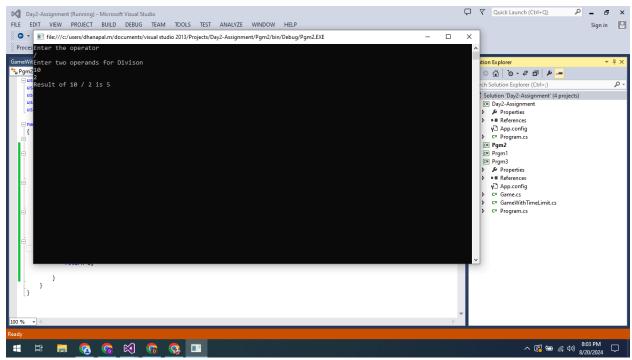
### Case 3 (Multiplication):

```
☐ ☐ Quick Launch (Ctrl+Q)
                                                                                                                                                                   P - ₽ ×
FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ANALYZE WINDOW HELP
                                                                                                                                                                        Sign in
○ • ○ | ⑥ • 當 🔛 🗗 ヴ • ぐ • | ▶ Continue • ⊘ • Debug • | 🎜 🛫 II • • り | 筍 | → ら。 ら、 は | 桜 🛫 上 宿 | 国 注 | 및 知 知 祖 💂
 Process: [9544] Pgm2.vshost.exe
                                                                                                                                    0 0 6 0 · 2 6 4 -
🐾 Pgm2.Operation

▼ ② div(double a, double b, out double sol)

    using System;
using System.Coll
iii file://c:/users/dhanapal.m/documents/visual studio 2013/Projects/Day2-Assignment/Pgm2/bin/Debug/Pgm2.EXE
                                                                                                                                           ۵.
    using System.Lond
Enter the operator
using System.Text*
using System.Threenter two operands for Multiplication
                                                                                                                                                      signment' (4 projects)
        Result of 3 * 6 is 18
           public i
{
           public i
               retu
             oublic i
               retu
           public do
                                                                                                                                                     へ 🚱 ≔ 🦟 🕬 8:02 PM
8/20/2024
    🛱 🥫 🝖 🖄 🕝 🦠 💷
```

# Case 4(Division):



#### **Program 3:**

#### Code:

```
Program.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace Prgm3
 class Program
   static void Main(string[] args)
     Console.WriteLine("Enter a game");
     string game = Console.ReadLine();
     Console.WriteLine("Enter the Max No. of Players");
     int maxplayers = Convert.ToInt32(Console.ReadLine());
     Console.WriteLine("Enter a game with time limit");
     string gamewithlimit = Console.ReadLine();
     Console.WriteLine("Enter the Max No. of Players");
     int maxplayerswithlimit = Convert.ToInt32(Console.ReadLine());
     Console.WriteLine("Enter the time limit in minutes");
     int time = Convert.ToInt32(Console.ReadLine());
     GameWithTimeLimit gamewithlimitobj = new GameWithTimeLimit();
    Game gameobj = new Game();
     gameobj.gamename = game;
     gameobj.maxplayers = maxplayers;
     Console.WriteLine(gameobj.ToString());
```

```
gamewithlimitobj.gamename = gamewithlimit;
     gamewithlimitobj.maxplayers = maxplayerswithlimit;
    gamewithlimitobj.timelimit = time;
    Console.WriteLine(gamewithlimitobj.ToString());
    Console.ReadKey();
Game.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Prgm3
 public class Game
   public string gamename { get; set; }
   public int maxplayers { get; set; }
   public override string ToString()
    return "Max No.of Players for "+gamename+" is "+maxplayers;
GameWithTimeLimit.cs
using System;
using System.Collections.Generic;
using System.Ling;
```

```
using System.Text;
using System.Threading.Tasks;

namespace Prgm3
{
    public class GameWithTimeLimit:Game
    {
        public int timelimit { get; set; }
        public override string ToString()
        {
            string baseclassout=base.ToString();
            return baseclassout +" \nThe Time Limit for " + base.gamename + " is " + timelimit;
        }
    }
}
```

#### Output:

