Name: Siddarth S Date: 20/08/2024

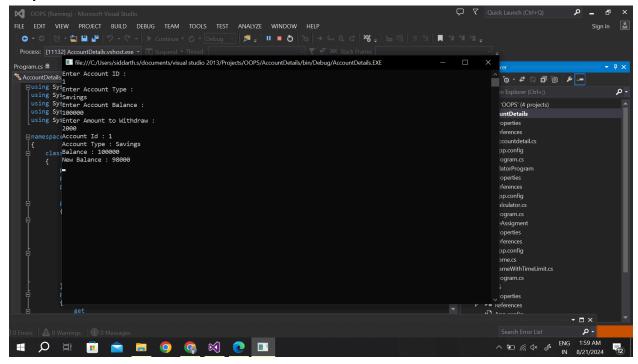
```
Program 1:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace AccountDetails
  class Accountdetail
  {
     private int id;
     private string accountType;
     private double balance;
     public int accld
       get
          return id;
       set
          id = value;
    public string accType
       get
       {
          return accountType;
       }
       set
          accountType = value;
     public double accBalance
       get
```

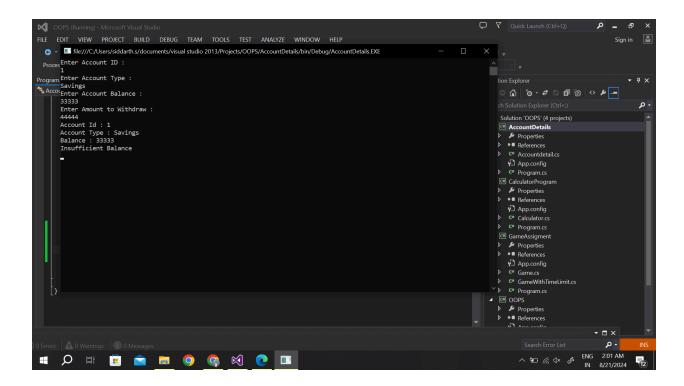
```
{
         return balance;
       }
       set
         balance = value;
       }
     public Accountdetail() { }
     public Accountdetail(int id, string accountType, double balance)
       this.id = id;
       this.accountType = accountType;
       this.balance = balance;
     public bool WithDraw(double amount)
       if (amount < accBalance)
         accBalance = accBalance -amount;
         return true;
       }
       else
         return false;
    public string getDetails()
       return "Account Id: " + accId + "\nAccount Type: " + accType + "\nBalance: " +
accBalance;
    static void Main(string[] args)
       Console.WriteLine("Enter Account ID: ");
       int id = int.Parse(Console.ReadLine());
       Console.WriteLine("Enter Account Type: ");
       string type = Console.ReadLine();
       Console.WriteLine("Enter Account Balance: ");
       double balance = Convert.ToDouble(Console.ReadLine());
       Accountdetail ac = new Accountdetail(id, type, balance);
       Console.WriteLine("Enter Amount to Withdraw: ");
```

```
double amount = Convert.ToDouble(Console.ReadLine());
    Console.WriteLine(ac.getDetails());

if (ac.WithDraw(amount))
{
        Console.WriteLine("New Balance : " + ac.accBalance);
    }
    Console.ReadKey();
}
```

## **Output:**





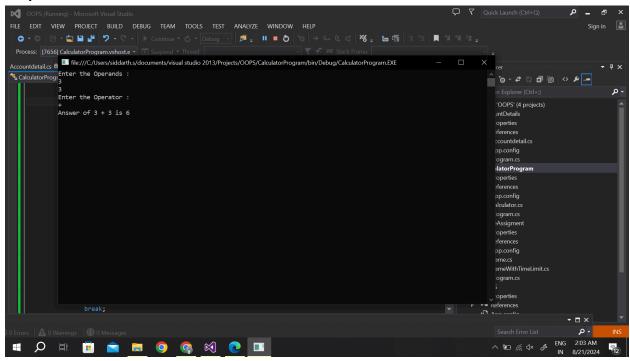
## Program 2

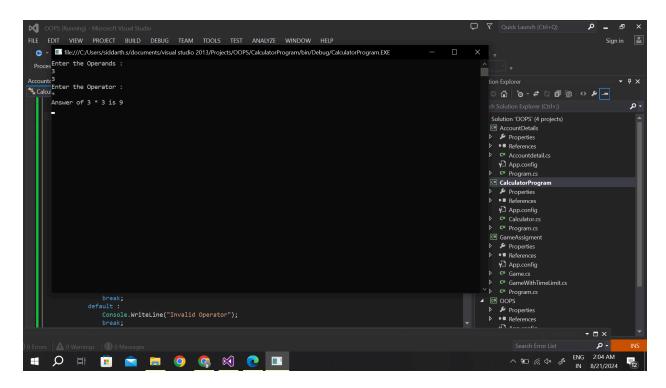
```
remainder = a % b;
       return a/b;
    }
 }
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace CalculatorProgram
  class Program
     static void Main(string[] args)
       Calculator cal = new Calculator();
       Console.WriteLine("Enter the Operands: ");
       int a = int.Parse(Console.ReadLine());
       int b = int.Parse(Console.ReadLine());
       Console.WriteLine("Enter the Operator: ");
       char oper = Convert.ToChar(Console.ReadLine());
       double c;
       switch (oper)
       {
          Console.WriteLine("Answer of " + a + " " + oper + " " + b + " is " + cal.Addition(a,b));
          break;
       case '-':
          Console.WriteLine("Answer of " + a + " " + oper + " " + b + " is " +
cal.Subtraction(a,b));
          break;
       case '*':
          Console.WriteLine("Answer of " + a + " " + oper + " " + b + " is " +
          cal.Multiplication(a, b));
          break:
       case '/':
```

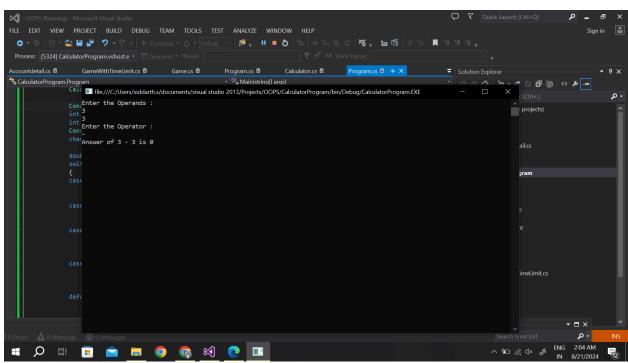
```
Console.WriteLine("Quotient of " + a + " " + oper + " " + b + " is " + cal.Division(a, b,out c));

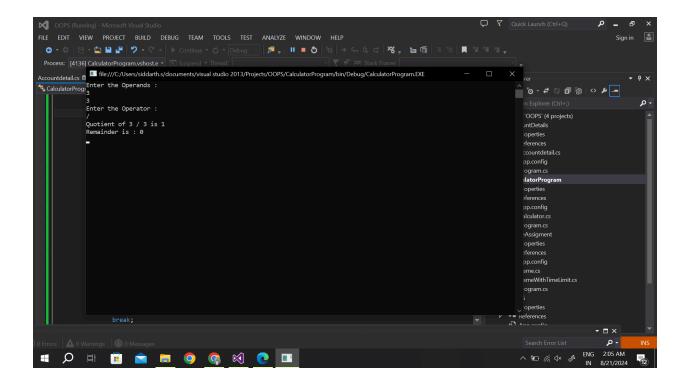
Console.WriteLine("Remainder is : "+c);
break;
default :
Console.WriteLine("Invalid Operator");
break;
}
Console.ReadKey();
}
```

## **Output:**









## **Program 3**

```
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace GameAssigment
  class Program
    static void Main(string[] args)
       Console.WriteLine("Enter a game");
       string gameTitle = Console.ReadLine();
       Console.WriteLine("Enter the maximum number of players");
       int maxPlayerCount = int.Parse(Console.ReadLine());
       Game basicGame = new Game { Name = gameTitle, MaxNumPlayers =
maxPlayerCount };
       Console.WriteLine("Enter a game that has a time limit");
       string timedGameTitle = Console.ReadLine();
       Console.WriteLine("Enter the maximum number of players");
       int timedGamePlayerCount = int.Parse(Console.ReadLine());
       Console.WriteLine("Enter the time limit in minutes");
```

```
int gameTimeLimit = int.Parse(Console.ReadLine());
       GameWithTimeLimit timedGame = new GameWithTimeLimit
         Name = timedGameTitle,
         MaxNumPlayers = timedGamePlayerCount,
         TimeLimit = gameTimeLimit
       };
       Console.WriteLine(basicGame.ToString());
       Console.WriteLine(timedGame.ToString());
       Console.ReadKey();
    }
  }
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
namespace GameAssigment
  class GameWithTimeLimit: Game
    public int TimeLimit { get; set; }
    public override string ToString()
       Console.WriteLine(base.ToString());
       return "Time Limit for " + Name + " is " + TimeLimit + " minutes";
    }
  }
}
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace GameAssigment
```

```
class Game
{
    public string Name { get; set; }
    public int MaxNumPlayers { get; set; }
    public override string ToString()
    {
        return "Maximum number of players for " + Name + " is " + MaxNumPlayers;
    }
}
```

