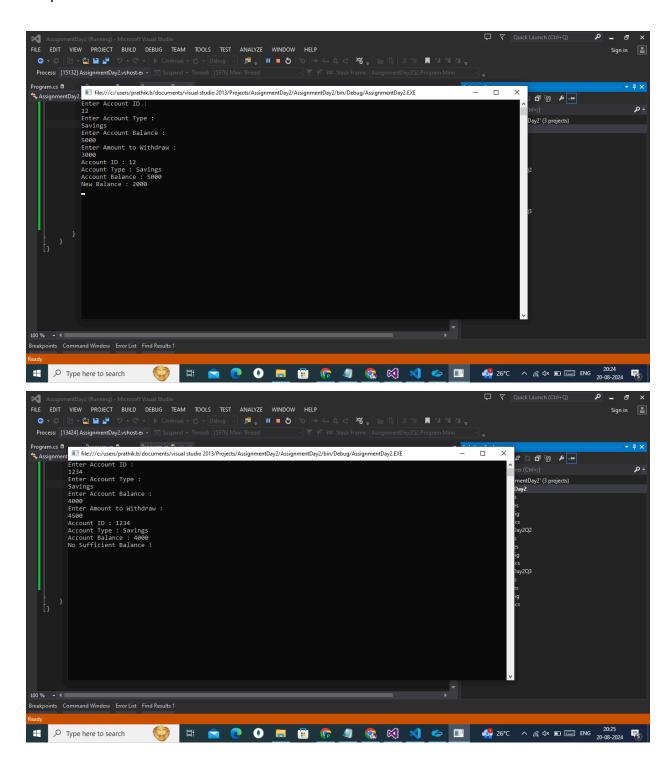
```
Date: 20-08-24
1.
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace Assignment Day 2
{
  internal class Account
     int id;
    string account Type;
     double balance;
     public Account()
     }
     public Account(int id , string accType , double balance)
       this.AccID = id;
       this.AccType = accType;
       this.AccBalance = balance;
     }
     public int AccID
       get
          return id;
```

```
}
  set
     id = value;
}
public string AccType
  get
  {
     return account Type;
  }
  set
  {
     accountType = value;
}
public double AccBalance
  get
  {
     return balance;
  }
  set
     balance = value;
}
public bool Withdraw(double amt)
  if (AccBalance > amt)
  {
     AccBalance -= amt;
```

```
return true;
       }
       return false;
     }
     public string getDetails()
       return "Account ID: " + AccID + "\nAccount Type: " + AccType + "\nAccount
Balance: " + AccBalance:
     }
  }
  internal class Program
     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());
       Account ac = new Account(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);
       }
       else
       {
          Console. WriteLine ("No Sufficient Balance!");
       Console.ReadKey();
```

```
}
}
}
```

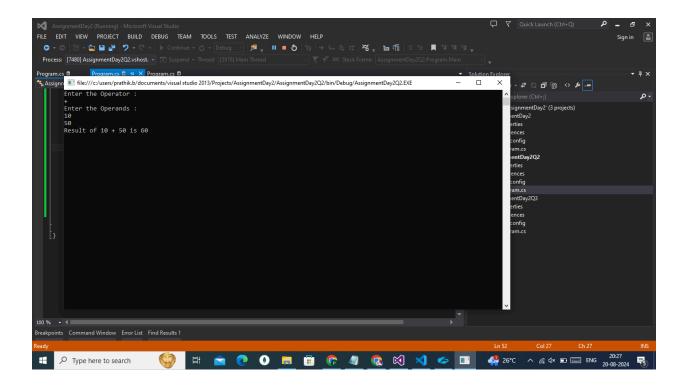
## Output:

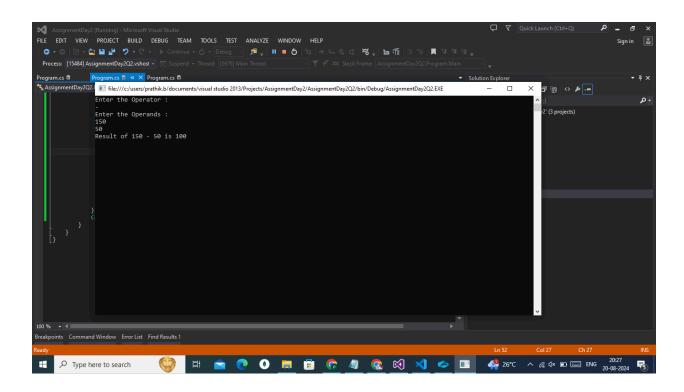


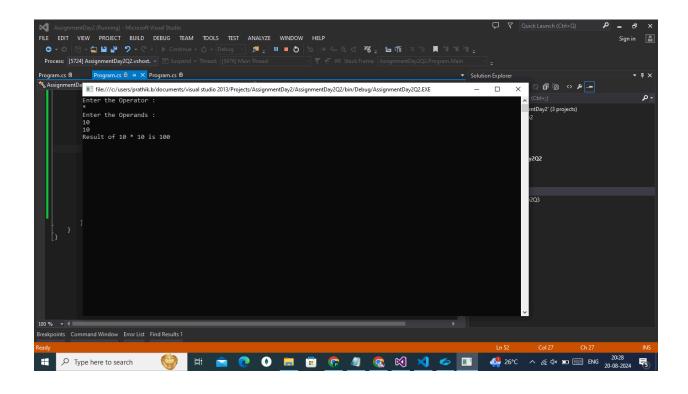
```
2.
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace AssignmentDay2Q2
{
  class Calculator
     public int Addition(int a, int b)
       return a+b;
     public int Subtraction(int a, int b)
       return a-b;
     public int Multiplication(int a, int b)
       return a*b;
     public double Division(int a, int b, out double rem)
       rem = a%b;
       return Convert. To Double (a/b);
     }
  }
  class Program
  {
     static void Main(string[] args)
     {
```

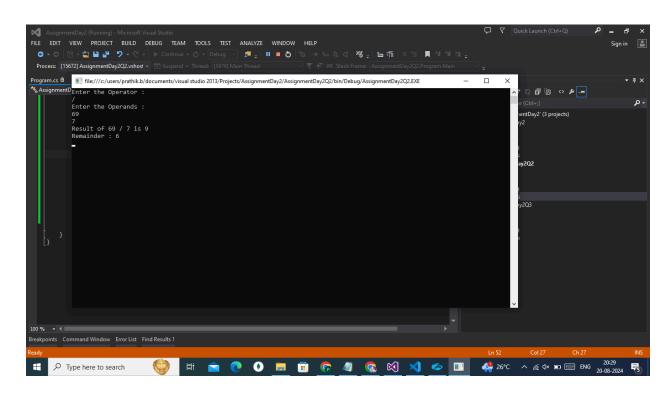
```
Calculator ca = new Calculator();
        Console.WriteLine("Enter the Operator: ");
        char op = Convert.ToChar(Console.ReadLine());
        Console.WriteLine("Enter the Operands: ");
        int a = int.Parse(Console.ReadLine());
        int b = int.Parse(Console.ReadLine());
        double c;
        switch (op)
           case '+':
             Console.WriteLine("Result of " + a + " " + op + " " + b + " is " + ca.Addition(a,
b));
             break;
           case '-':
             Console, WriteLine ("Result of " + a + " " + op + " " + b + " is " + ca, Subtraction (a,
b));
             break;
           case '*':
             Console. WriteLine ("Result of " + a + " " + op + " " + b + " is " +
ca.Multiplication(a, b));
             break;
           case '/':
             Console. WriteLine ("Result of " + a + " " + op + " " + b + " is " + ca. Division (a, b,
out c));
             Console.WriteLine("Remainder: "+c);
             break;
           default:
             Console. WriteLine ("Invalid Operator");
             break;
        }
        Console.ReadKey();
     }
  }
}
```

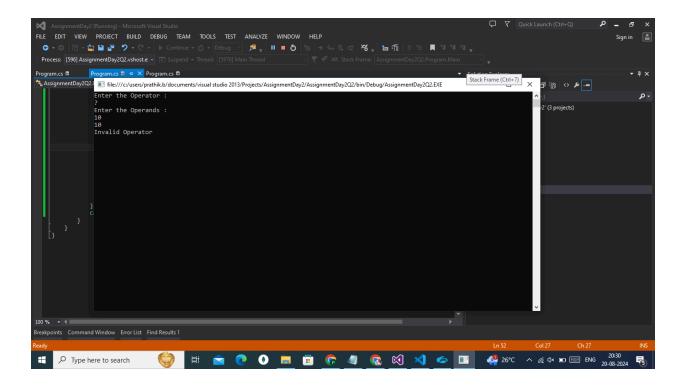
## Output:











```
3.
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace AssignmentDay2Q3
{
    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;
        }
}
```

```
}
  class GameWithTimeLimit: Game
  {
     public int TimeLimit { get; set; }
     public override string ToString()
       Console.WriteLine(base.ToString());
       return "Time Limit for "+Name+" is "+TimeLimit+" minutes";
     }
  }
  class Program
     static void Main(string[] args)
     {
       Console.WriteLine("Enter a game");
       string Name = Console.ReadLine();
       Console. WriteLine ("Enter the maximum number of players");
       int maxPlayers = int.Parse(Console.ReadLine());
       Game game = new Game { Name = Name, MaxNumPlayers = maxPlayers };
       Console. WriteLine ("Enter a game that has time limit");
       string gameName = Console.ReadLine();
       Console. WriteLine ("Enter the maximum number of players");
       int Players = int.Parse(Console.ReadLine());
       Console. WriteLine ("Enter the time limit in minutes");
       int timeLimit = int.Parse(Console.ReadLine());
       GameWithTimeLimit gameWithTimeLimit = new GameWithTimeLimit{Name =
gameName, MaxNumPlayers = Players,
                                            TimeLimit = timeLimit};
       Console.WriteLine(game.ToString());
       Console.WriteLine(gameWithTimeLimit.ToString());
       Console.ReadKey();
  }
}
```

## Output:

