

Payoda-Phase2 – Day5(04-08-23)

C#

Task 1: Create a C# program that models a simple banking system using classes and objects. Design a class called "BankAccount".

BankAccount.cs:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace SampleProgram
{
    class BankAccount
    {
        private readonly int _account_number;
        private string accountholdername;
        private int accountbalance = 0;

        public BankAccount(int _account_number, string account_holdername)
        {
            this._account_number = _account_number;
            Account_holdername = account_holdername;
        }

        public int Account_number => _account_number;

        public string Account_holdername { get => accountholdername; set =>
accountholdername = value; }
        public int Account_balance { get => accountbalance; set => accountbalance =
value; }

        public int amountDeposit(int amount)
        {
            if (amount <= 0)
            {
                Console.WriteLine("Invalid deposit amount. Deposit amount must be greater
than zero.");
                return -1;
            }
            else
            {
                Account_balance += amount;
                return Account_balance;
            }
        }

        public int amountWithdraw(int amount)
        {
            if (amount <= 0)
            {
```

```

        Console.WriteLine("Invalid withdrawal amount. Withdrawal amount must be
greater than zero.");
        return -1;
    }
    else if (amount > Account_balance)
    {
        Console.WriteLine("Insufficient balance.");
        return -1;
    }
    else
    {
        Account_balance -= amount;
        return amount;
    }
}
}
}

```

Program.cs:

```

using System;

namespace SampleProgram
{
    class Program
    {
        static void Main(string[] args)
        {
            BankAccount bankaccount = new BankAccount(10432, "Sanjai");

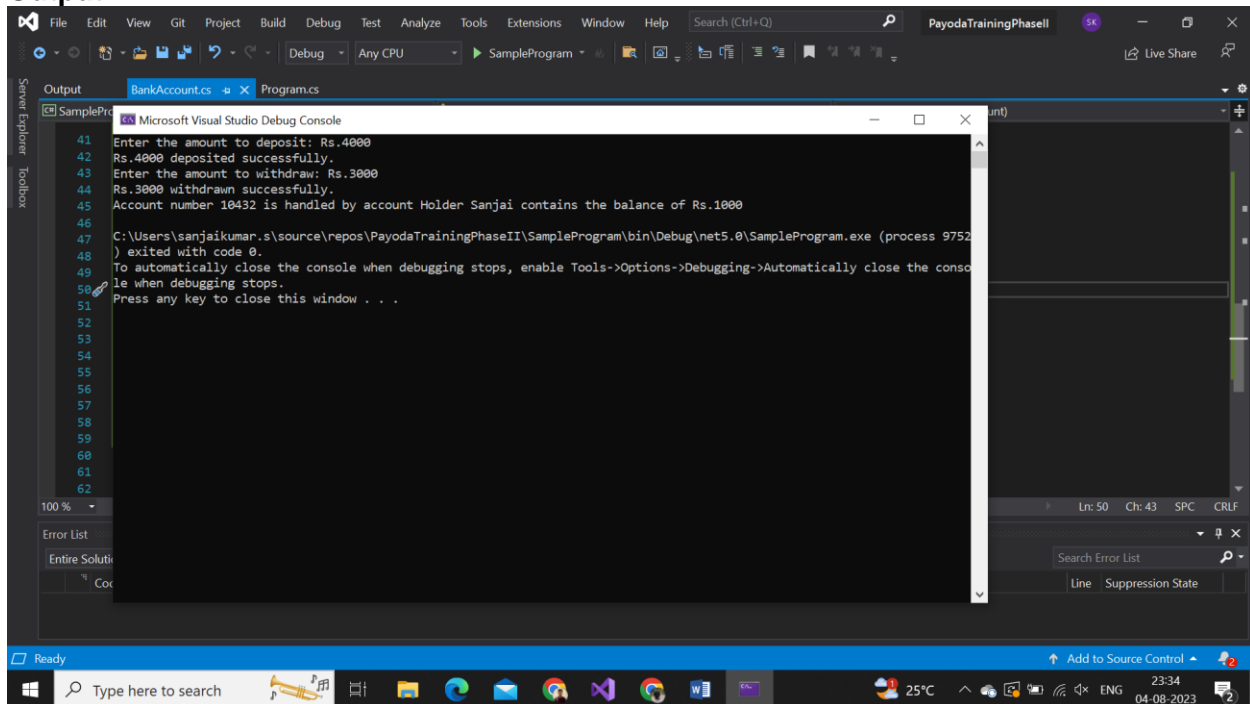
            // Deposit
            Console.Write("Enter the amount to deposit: Rs.");
            int depositAmount = Convert.ToInt32(Console.ReadLine());
            int depositedAmount = bankaccount.amountDeposit(depositAmount);
            if (depositedAmount > 0)
            {
                Console.WriteLine($"Rs.{depositedAmount} deposited successfully.");
            }

            // Withdraw
            Console.Write("Enter the amount to withdraw: Rs.");
            int withdrawAmount = Convert.ToInt32(Console.ReadLine());
            int withdrawnAmount = bankaccount.amountWithdraw(withdrawAmount);
            if (withdrawnAmount > 0)
            {
                Console.WriteLine($"Rs.{withdrawnAmount} withdrawn successfully.");
            }

            // Display final account details
            Console.WriteLine($"Account number {bankaccount.Account_number} is handled by
account Holder {bankaccount.Account_holdername} contains the balance of
Rs.{bankaccount.Account_balance}");
        }
    }
}

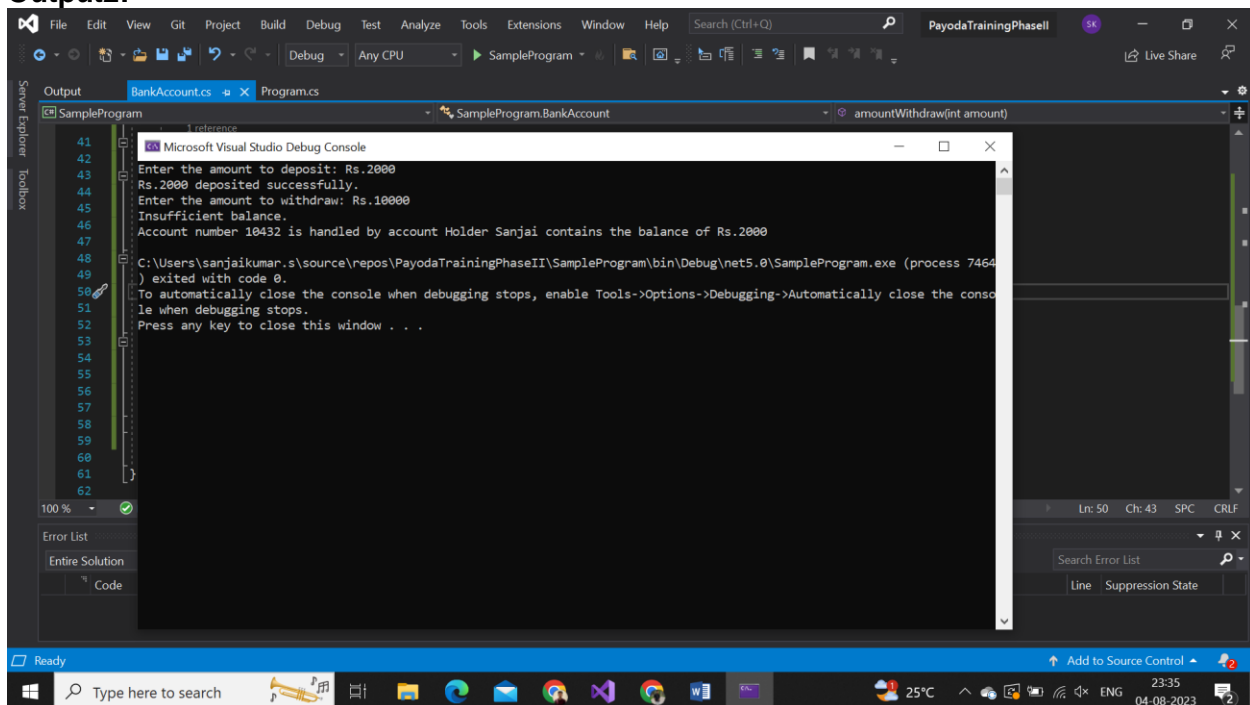
```

Output:



```
41 Enter the amount to deposit: Rs.4000
42 Rs.4000 deposited successfully.
43 Enter the amount to withdraw: Rs.3000
44 Rs.3000 withdrawn successfully.
45 Account number 10432 is handled by account Holder Sanjai contains the balance of Rs.1000
46
47 C:\Users\sanjaikumar.s\source\repos\PayodaTrainingPhaseII\SampleProgram\bin\Debug\net5.0\SampleProgram.exe (process 9752)
48 ) exited with code 0.
49 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console
50 when debugging stops.
51 Press any key to close this window . . .
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```

Output2:



```
41 Enter the amount to deposit: Rs.2000
42 Rs.2000 deposited successfully.
43 Enter the amount to withdraw: Rs.10000
44 Insufficient balance.
45 Account number 10432 is handled by account Holder Sanjai contains the balance of Rs.2000
46
47 C:\Users\sanjaikumar.s\source\repos\PayodaTrainingPhaseII\SampleProgram\bin\Debug\net5.0\SampleProgram.exe (process 7464)
48 ) exited with code 0.
49 To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console
50 when debugging stops.
51 Press any key to close this window . . .
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```