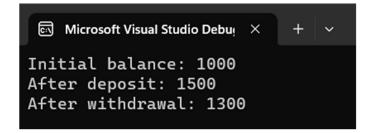
EXPT 5

• Encapsulation

```
using System;
class BankAccount
    private decimal balance;
    public decimal Balance
        get { return balance; }
        private set { balance = value; }
    public BankAccount(decimal initialBalance)
        Balance = initialBalance;
    public void Deposit(decimal amount)
        Balance += amount;
    }
    public void Withdraw(decimal amount)
        Balance -= amount;
}
class Program
    static void Main(string[] args)
        BankAccount account = new BankAccount(1000);
        Console.WriteLine("Initial balance: " + account.Balance);
        account.Deposit(500);
        Console.WriteLine("After deposit: " + account.Balance);
        account.Withdraw(200);
        Console.WriteLine("After withdrawal: " + account.Balance);
    }
}
```

Output: -



• Function Overloading

```
using System;
class Calculator
    public int Add(int a, int b)
        return a + b;
    public int Add(int a, int b, int c)
        return a + b + c;
    public double Add(double a, double b)
        return a + b;
    }
    public string Add(string a, string b)
       return a + b;
    }
}
class Program
    static void Main(string[] args)
        Calculator calculator = new Calculator();
        int sum1 = calculator.Add(1, 2);
        Console.WriteLine("1 + 2 = " + sum1);
        int sum2 = calculator.Add(1, 2, 3);
```

```
Console.WriteLine("1 + 2 + 3 = " + sum2);

double sum3 = calculator.Add(1.5, 2.5);
Console.WriteLine("1.5 + 2.5 = " + sum3);

string sum4 = calculator.Add("Hello, ", "world!");
Console.WriteLine("Concatenation of two strings: " + sum4);
}
```

Output: -

```
Microsoft Visual Studio Debu! × + v

1 + 2 = 3
1 + 2 + 3 = 6
1.5 + 2.5 = 4

Concatenation of two strings: Hello, world!
```