Programming Advanced for QA - Regular Exam

17 December 2023

Submit your zip file here: https://judge.softuni.org/Contests/Compete/Index/4499#2

3. Unit Test: Bank Account

You are given a class BankAccount holding a double property Balance and two methods Deposit() and Wtihdraw():

```
public void Deposit(double amount)
    if (amount <= 0)</pre>
        throw new ArgumentException(message: "Deposit amount must be greater than zero.");
    this.Balance += amount;
}
```

```
public void Withdraw(double amount)
    if (amount <= 0 || amount > this.Balance)
        throw new ArgumentException(message: "Invalid withdrawal amount.");
    this.Balance -= amount;
}
```

You will need to test the two methods using the test file BankAccountTests.cs, inside they are 6 empty tests:









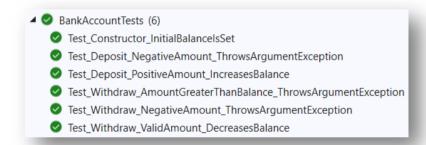




```
public class BankAccountTests
   Test
   public void Test Constructor InitialBalanceIsSet()...
   public void Test Deposit PositiveAmount IncreasesBalance()...
   public void Test_Deposit_NegativeAmount_ThrowsArgumentException()...
   Test
   public void Test_Withdraw ValidAmount_DecreasesBalance()...
   Test
   public void Test_Withdraw_NegativeAmount_ThrowsArgumentException()...
   Test
   public void Test_Withdraw_AmountGreaterThanBalance_ThrowsArgumentException()...
```

Note! You may need to think for rounding when decimal numbers are used for withdraw.

When you are ready make sure your tests run:



IMPORTANT: DO NOT REMOVE OR CHANGE ANY NAMESPACES AND USINGS.















