

DotNet - Developer Tools - DQ - S1 - Day 1

Q. The _____ class contains a number of static (shared) methods, which are used to return a True or False from the test.

- 1). Assertion
- 2). **Assert**
- 3). TestFixture
- 4). None of the above

. What are the basic components of a Logger Tool Log4Net?

- 1). **Logger**
- 2). Appender
- 3). Layout
- 4). **All the above three**

Q. Unit testing is used to catch the following types of errors _____.

- 1). Performance problems
- 2). Integration Errors
- 3). **Functionality of a Unit**
- 4). Load Test

. The Method that contains the Test code should be:

- 1). Public
- 2). Parameter less
- 3). Void
- 4). **All the above three**

Q. SetUp and TearDown are used to mark methods that should be called only once before and after the tests begin.

- 1). True
- 2). **False**

Q. Which of the fix category of FxCOP specifies that resolving the issue will cause dependent code to break, hence recompilation needed?

- 1). **Breaking**
- 2). Non Breaking
- 3). Critical Error
- 4). Warning

Q. Use the _____ attribute when a method should raise an exception on a particular failure condition.

- 1). Exception
- 2). RaiseException
- 3). **ExpectedException**
- 4). None of the above

Q. The _____ attribute marks a class as containing tests.

- 1). Fixture
- 2). UnitFixture
- 3). **TestFixture**
- 4). None of the above

Q. We want to Test the following code on a stack class:

```
public object Top()
{
    if(IsEmpty)
        throw new InvalidOperationException("Stack is Empty");

    return elements[0];
}
```

What is the correct Test Method code which will check whether the appropriate exception is thrown by the code?

1). [ExpectedException(typeof(InvalidOperationException))]

```
public void TopEmptyStack()
{
    stack.Top();
}
```

2). [Test]

[ExpectedException(InvalidOperationException)]

```
public void TopEmptyStack()
{
    stack.Top();
}
```

3). [Test]

[ExpectedException(typeof(InvalidOperationException))]

```
public void TopEmptyStack()
{
    stack.Top();
}
```

```
}
```

```
4). [Test(typeof(InvalidOperationException))]
public void TopEmptyStack()
{
    stack.Top();
}
```

Q. A method marked with _____ attribute is called once before each test case.

- 1). TearDown
- 2). **TestInitialize**
- 3). TestClass
- 4). TestMethod

DotNet - Developer Tools - DQ - S2 - Day 1

Q. Which of the followings are true about FxCop tool.

Select any 3 correct statements.

- 1). It is used to check errors in code
- 2). **It can be applied to any .Net language**
- 3). **It analyzes the managed code assemblies and reports about issues related to design guidelines**
- 4). **FxCop uses reflection to perform heuristics on target assembly**

Solution :

option [2,3,4] are correct

Attempted :

option [2,3,4] are attempted

Q. Identify the correct code to test the following class using Nunit framework

```
public class Employee
{
    public int GenerateNextEmployeeId()
    {
        //code to generate employee id
        Random random = new Random();
        return random.Next(500, 99999);
    }
}
```

- 1). **[TestFixture] public class EmployeeTests { [Test] public void GenerateNextEmployeeIdTest() { //Test case code } }**
- 2). [TestFixture] public class EmployeeTests { [TestMethod] public void GenerateNextEmployeeIdTest() { //Test case code } }

3). [TestClass] public class EmployeeTests { [Test] public void GenerateNextEmployeeIdTest() {
//Test case code } }

4). [TestClass] public class EmployeeTests { [TestMethod] public void
GenerateNextEmployeeIdTest() { //Test case code } }

Solution :

option [1] is correct

Attempted :

option [1] is attempted

Q. StyleCop run on source code written in which of the following programming languages

1). VB.Net and C#

2). **C# only**

3). VB.Net only

4). All .Net languages

Solution :

option [2] is correct

Attempted :

option [2] is attempted

Q. Issues resolved in a target assembly will be listed under which tab in FxCop

1). **Absent**

2). Active

3). Excluded in project

4). Excluded in source

Solution :

option [1] is correct

Attempted :

option [1] is attempted

Q. Match the following list of Nunit element with their equivalents in Microsoft Unit Test Framework

NUNIT/MS Test Framework

Column A

1. TestFixture

2. SetUp

3. TearDown

4. Test

Column B(Attempted)

1. TestMethod

2. TestClass

3. TestCleanup

4. TestCleanUp

Solution

1. TestClass
2. TestInitialize
3. TestCleanUp
4. TestMethod

Q. Identify the statements which are true about unit testing

Statement A: Unit testing allows us to check for specific type of exception in code

Statement B: It is possible to Unit test a dll created using VB.Net in C#

- 1). **Both are true**
- 2). Statement A is true Statement B is false
- 3). Statement A is false Statement B is True
- 4). Both are false

Solution :

option [1] is correct

Attempted :

option [1] is attempted

Q. Which among the following are correct about unit testing.

Select any 2 correct statements.

- 1). It is used to check for compile time errors
- 2). **It used to check runtime errors**
- 3). **It provides a living documentation**
- 4). It increases the performance of code

Solution :

option [2,3] are correct

Attempted :

option [2,3] are attempted

Q. Identify the correct statements about logging

Statement A: Logging is used for monitoring an applications state

Statement B: Logging is used for handling exceptions in code

- 1). **Statement A is true Statement B is false**
- 2). statement A is false Statement B is True

3). Both are False

4). Both are True

Solution :

option [1] is correct

Attempted :

option [1] is attempted

Q. Which of the below statements are true about StyleCop tool

Select any 2 correct statements.

1). **StyleCop is used to analyze the source code**

2). **StyleCop focuses on layout, readability and documentation**

3). StyleCop performs its analysis on compiled assemblies

4). StyleCop lists all compile time errors

Solution :

option [1,2] are correct

Attempted :

option [1,2] are attempted

Q. Match the following.

Column A

1. FxCop

2. StyleCop

Column B(Attempted)

1. is used to check for design guide line related issues in assemblies

2. is used to check readability of source code

Solution

1. is used to check for design guide line related issues in assemblies

2. is used to check readability of source code