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Quiz Submissions - Exam 2

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Attempt 1

Written: Nov 10, 2016 5:58 PM - Nov 10, 2016 8:40 PM

Submission View

Your quiz has been submitted successfully.

Chapter 14 Random

Question 1

1 / 1 point

If the Student class inherits the Person class and overrides a virtual method named GetBirthday, which method does the third statement in the following code example call?

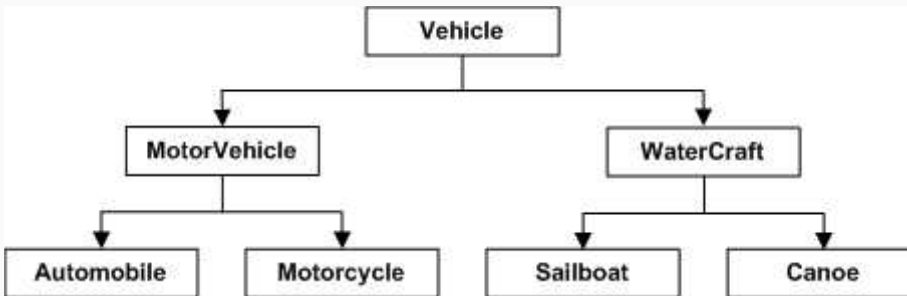
```
Student s = new Student("Albert Einstein");  
Person p = s;  
p.GetBirthday();
```

- ☐ the GetBirthday method defined in the Person class
- ☒ the GetBirthday method defined in the Student class
- ☐ the GetBirthday method defined in the Object class
- ☐ none of the above

Question 2

1 / 1 point

Diagram 14-1



(Refer to diagram 14-1.) If the constructor that follows is called, what other constructor is also called?

```

public Sailboat(string id, decimal length, int sails) : base(id, "sailboat", length)
{
    this.sails = sails;
}
  
```

- ☐ `public Sailboat(int sails){...}`
- ☐ `public Sailboat(string id, string type, decimal length){...}`
- ✓ ☒ `public WaterCraft(string id, string type, decimal length){...}`
- ☐ `public Vehicle(string id, string type, decimal length){...}`

Question 3

1 / 1 point

Which of the following declarations defines a Student class that inherits a Person class?

- ☐ `public class Person : Student`
- ✓ ☒ `public class Student : Person`
- ☐ `public class Person extends Student`
- ☐ `public class Student inherits Person`

Question 4

1 / 1 point

If the Student class inherits the Person class and overrides a virtual method named GetBirthday, what feature does the following code example illustrate?

```

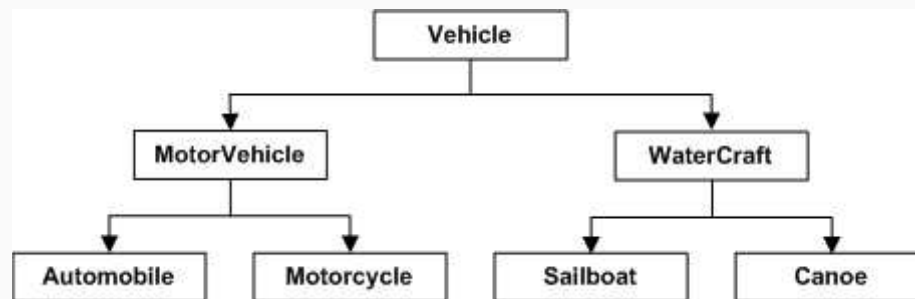
Student s = new Student("Albert Einstein");
Person p = s;
p.GetBirthday();
  
```

- ☐ Inheritance
- ☐ Encapsulation
- ✓ ☒ Polymorphism
- ☐ Hiding

Question 5**0 / 1 point**

Which of the following is *not* a reason to declare a class as sealed?

- ☒ To prevent others from inheriting the class
- ☐ To improve efficiency
- ☐ To prevent others from changing how the methods work
- ☐ To give a class more functionality

Question 6**1 / 1 point****Diagram 14-1**

(Refer to diagram 14-1.) If the MotorVehicle class contains a protected method named GetEngineType, what other class or classes can access this method?

- ☐ Vehicle, Automobile, and Motorcycle
- ☐ Vehicle and WaterCraft
- ☒ Automobile and Motorcycle
- ☐ Vehicle

Question 7**0 / 1 point**

If you are designing the classes for an application and you realize that two classes share some common elements, you can define those elements in a _____ class.

Answer for blank # 1: sub ☒ (/base/)

Answer for blank # 2: ☒ (/super/)

Answer for blank # 3: ☒ (/parent/)

Question 8**1 / 1 point**

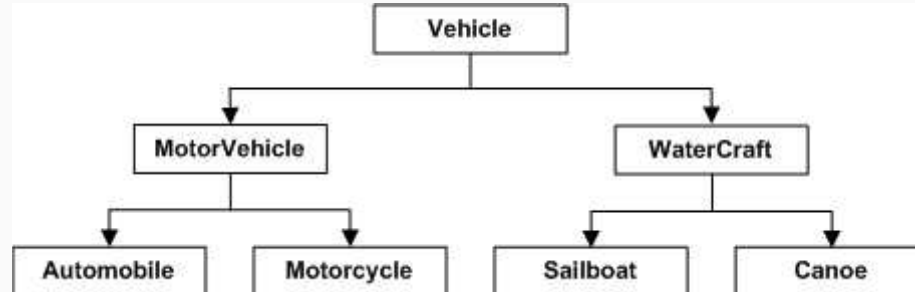
When used correctly, inheritance can

- ☐ make an application run faster
- ☐ make it easier to write the code for the application
- ☒ simplify the overall design of an application

- ☐ eliminate the need for casting

Question 9**1 / 1 point**

Assume that the Vehicle class contains a virtual method named CalculateMaxSpeed. Assume that both the MotorVehicle and Automobile classes override this method. Which class defines the method that is called when the second statement in the code that follows is executed?



```
MotorVehicle car = new Automobile();
car.CalculateMaxSpeed();
```

- ✓ ☒ Automobile
- ☐ MotorVehicle
- ☐ Vehicle
- ☐ Object

Question 10**1 / 1 point**

Polymorphism is a feature of inheritance that lets you treat objects of different subclasses that are derived from the same base class as if they had the same _____ as the base class.

Answer: type ✓

Question 11**0 / 1 point**

In the System.Windows.Forms namespace, the Control class

- ➡ ☐ provides properties and methods that all controls in the namespace have in common
- ✗ ☒ inherits the properties and methods from all of the control classes in the namespace
- ☐ is the base class for the Button, TextBox, and Label classes, but not the Form class
- ☐ is a child class of the Form class

Question 12**1 / 1 point**

Which of the following method declarations overrides the method that follows?

```
protected virtual double CalculateMilesPerGallon(double speed){...}
```

- ☐ public new double CalculateMilesPerGallon(int s){...}
- ☐ public override double CalculateMilesPerGallon(int speed){...}
- ☐ public new double CalculateMilesPerGallon(double speed){...}
- ✓ ☒ public override double CalculateMilesPerGallon(double s){...}

Question 13**1 / 1 point**

If you access a virtual method of a base class object and that method is overridden in the subclasses, the method that is called depends upon the _____ of the object.

Answer: type ✓

Question 14**0 / 1 point****Code example 14-1**

```
public class SavingsAccount : Account
{
    public SavingsAccount() : base()
    {
        base.Type = "Savings";
    }

    public SavingsAccount(int number) : base(number)
    {
        base.Type = "Savings";
    }

    public SavingsAccount(int number, decimal balance) :
        base(number, "Savings", balance)
    {
    }
}
```

(Refer to code example 14-1.) If the statement that follows is executed, which of the following constructors will be called?

```
SavingsAccount account = new SavingsAccount(111);
```

- ✗ ☒ `public SavingsAccount(){...}`
- ☐ `public SavingsAccount(int number, double balance){...}`
- ➡ ☐ `public Account(int number){...}`
- ☐ `public Account(int number, string type){...}`

Question 15**1 / 1 point**

To refer to a member of the parent class when you're coding a child class, you can use the _____ keyword.

Answer: base ✓

Question 16**0 / 1 point**

If a method accepts an Object type, what types of objects can it accept?

- ☐ None

- ➡ ☐ All objects
- ☐ Only objects created from classes in the System namespace
- ✗ ☒ Only objects created from classes that explicitly extend the Object class

Question 17**1 / 1 point**

A class can

- ☐ have only one derived class
- ☐ be the base class for only one derived class
- ☐ be only a base class or a derived class
- ✓ ☒ be both a base class and a derived class

Question 18**1 / 1 point**

If the Student class inherits the Person class, which of the following statements is true?

- ✓ ☒ You must explicitly cast a Person object to a Student object whenever a Student object is expected.
- ☐ You must explicitly cast a Student object to a Person object whenever a Student object is expected.
- ☐ You must explicitly cast a Person object to a Student object whenever a Person object is expected.
- ☐ You must explicitly cast a Student object to a Person object whenever a Person object is expected.

Question 19**1 / 1 point**

If you want a member of a class to be accessible within the current class and from subclasses but not from other classes, you should declare it with the _____ access modifier.

Answer: protected ✓

Question 20**1 / 1 point**

The GetType method of an object returns

- ☐ a Type enumeration that identifies the object's type
- ✓ ☒ a Type object that contains information about the object's type
- ☐ a string that contains the name of the object's type
- ☐ an int value that identifies the type of the object

Question 21**1 / 1 point**

A class that can't be inherited by another class is called a/an _____ class.

Answer: sealed ✓

Question 22**1 / 1 point**

To declare a method or property that can be overridden by a subclass, you use the _____ keyword as the access modifier for the method or property.

Answer: virtual ✓

Question 23**1 / 1 point**

To get the Type object for an object, you can use the _____ method of the Object class.

Answer: GetType ✓

Question 24**1 / 1 point**

Which of the following can you *not* code in a subclass?

- ☐ A method that overrides a virtual method in the base class
- ☐ A call to a constructor of the base class
- ☐ A new method that's not defined by the base class
- ✓ ☒ A call to a private method of the base class

Question 25**1 / 1 point**

All objects have access to the methods of the _____ class.

Answer: System.Object ✓

Question 26**0 / 1 point**

The ToString, Equals, and GetHashCode methods are available to all objects because

- ☐ they are defined in the System namespace
- ✗ ☒ they are inherited by the System.Object class, which all other objects are based on
- ➡ ☐ they are members of the System.Object class, which all objects inherit
- ☐ they are defined with public access

Question 27**1 / 1 point****Code example 14-1**

```
public class SavingsAccount : Account
{
    public SavingsAccount() : base()
    {
        base.Type = "Savings";
    }

    public SavingsAccount(int number) : base(number)
    {
        base.Type = "Savings";
    }
}
```

```

    }

    public SavingsAccount(int number, decimal balance) :
        base(number, "Savings", balance)
    {
    }
}

```

(Refer to code example 14-1.) Which of the following statements creates an object of the Account class?

- ☐ `Account account = new Account(1223, 0.0m);`
- ☐ `Account account = new Account("Checking");`
- ☐ `Account account = new Account("1111", 550.00m);`
- ☒ `Account account = new Account(111, "Checking", 0.0m);`

Question 28

1 / 1 point

A class that can be inherited by another class but can't be instantiated is called a/an _____ class.

Answer: abstract ✓

Question 29

1 / 1 point

To work with the classes and subclasses of the .NET Framework, you often need to know the _____ hierarchy.

Answer: inheritance ✓

Question 30

1 / 1 point

The constructor of a derived class automatically calls the default _____ of the base class before the constructor for the derived class is executed.

Answer: constructor ✓

Question 31

1 / 1 point

A protected method defined within a base class is available to

- ☐ only the base class
- ☐ only classes derived from the base class
- ☒ both the base class and classes derived from it
- ☐ neither the base class nor classes derived from it

Chapter 19 Random

Question 32

1 / 1 point

When you add a parameterized query to a table adapter, Visual Studio automatically adds a toolbar to the form that lets you

- ☐ navigate from one parameter to the next
- ☐ navigate from one parameter value to the next
- ☐ enter the parameter name and value that's needed by the query
- ✓ ☒ enter the parameter value that's needed by the query

Question 33**0 / 1 point**

After you've used the properties and methods of a binding source to modify the rows in a dataset, you need to use the _____ method of the table adapter manager object to make the changes to the database.

Answer: EndEdit ✗ (/UpdateAll/)

Question 34**1 / 1 point**

You will usually want to edit the code that Visual Studio generates for a parameterized query for all but one of the following reasons. Which one is it?

- ✓ ☒ To make sure the query works right
- ☐ To make the code easier to read and understand
- ☐ To improve the error handling provided by the code

Question 35**1 / 1 point**

Assume that you've added a Cancel button to the binding navigator toolbar for an application that is supposed to cancel the current editing operation. If the binding source object is named CustomersBindingSource, write the code that you would use in the the event handler for the Click event of that button to cancel the edit operation.

Answer: this.CustomersBindingSource.CancelEdit(); ✗ (/customersBindingSource.CancelEdit();/)

Question 36**1 / 1 point**

When you edit the properties or columns of a DataGridView control, you can do all but one of the following. Which one is it?

- ✓ ☒ disable row navigation
- ☐ change column headers
- ☐ reorder the columns
- ☐ disable row additions

Question 37**1 / 1 point**

After you customize a binding navigator toolbar so it can be used to start queries, you need to write the _____ handlers that make this work.

Answer: event ✓

Question 38**1 / 1 point**

When you add a parameterized query to a table adapter, Visual Studio automatically generates the code that's required for executing the query, including a try-catch statement that catches

- ☐ data provider exceptions
- ☐ ADO.NET exceptions
- ☐ all types of data exceptions
- ✓ ☒ all types of exceptions

Question 39**1 / 1 point**

You can use the smart tag menu of a DataGridView control to modify its most commonly used _____.

Answer: properties ✓

Question 40**1 / 1 point**

Although the binding navigator toolbar makes it easy to develop a form that gets data from a data source, you may prefer *not* to use this toolbar for all but one of the following reasons. Which one is it?

- ☐ So you can develop your own custom toolbar
- ☐ So you have more control over the operations that are done by a form
- ✓ ☒ So you can easily delete a row in a dataset
- ☐ Because some forms don't need the functions that are provided by the binding navigator toolbar

Question 41**1 / 1 point**

To customize the items on a ToolStrip control, you can use the

- ☐ Form Designer
- ✓ ☒ Items Collection Editor
- ☐ Dataset Designer
- ☐ ToolStrip Designer

Question 42**1 / 1 point**

To apply formatting to a bound text box, you can use the Formatting and Advanced Binding dialog box that you can access from the _____ window.

Answer: Properties ✓

Question 43**1 / 1 point**

In the statement that follows, the FillByCustomerID method

```
this.customersTableAdapter.FillByCustomerID(
    this.mmaBooksDataSet.Customers, customerID);
```

- ☐ loads the Customers table in the dataset with data from the database in customerID sequence
- ☐ loads the customers table adapter with data from the database
- ✓ ☒ loads the Customers table with one row from the database
- ☐ loads the customers table adapter with one row from the database

Question 44**1 / 1 point**

You can use the Position property of a BindingSource object to

- ✓ ☒ get the index of the current row in the data source
- ☐ get the number of rows in the data source
- ☐ move the current row in the data source to a different position in the data source
- ☐ add a blank row to the data source

Question 45**1 / 1 point**

When you bind a combo box to a table in one data source, you can display the data from one column of that table in the list of the combo box and use the selected value to

- ☐ update another column in that table
- ✓ ☒ update a column in a table of another data source
- ☐ update another column in that table *or* a column in a table of another data source
- ☐ update another column in that table *and* a column in a table of another data source

Question 46**0 / 1 point**

For each parameterized query that you add to a data table, Visual Studio adds a/an _____ control to the form.

Answer: toolbar ✗ (/ToolStrip/)

Question 47**1 / 1 point**

To create a Master/Detail form that uses a DataGridView control for the detail rows, you just need to

- ☐ drag a table from the DataSources window to a form

- ✓ ☒ drag a subordinate table from the Data Sources window to a form
- ☐ set the DataSource and DataMember properties for the second table correctly

Question 48**0 / 1 point**

The binding source synchronizes the data between the

- ☐ bound controls and the binding navigator toolbar
- ➡ ☐ bound controls and the table in the dataset
- ✗ ☒ bound controls and the table in the database
- ☐ bound controls and the table adapter

Attempt Score: 39 / 50**Overall Grade** (highest attempt): 39 / 50[Done](#)