

Quiz Submissions - Quiz #5



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Attempt 1

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Submission View

You successfully submitted your quiz.

Question 1

1 / 1 point

Inheritance is also known as the

- ☐ a) Knows-a relationship
- ☐ b) Has-a relationship
- ☐ c) Uses-a relationship
- ☒ d) Is-a relationship

Question 2

0 / 1 point

Which of the following is not a superclass/ subclass relationship

- ☐ a) Vehicle/Car
- ☒ b) Sailboat/Tugboat
- ☒ c) Employee/ HourlyEmployee
- ☐ d) None of the above

Question 3

1 / 1 point

Does a subclass inherit both instance variables and methods?

- ☐ a) No, only instance variables are inherited

☐ b) No, only methods are inherited

✓ ☒ c) Yes, both are inherited

☐ d) Yes, but only one or the other are inherited

Question 4

1 / 1 point

A novice programmer has written the code below, it is showing a compile error. Identify the error in the code

```
public class class1{  
    private int value;  
}  
  
public class Class2{  
    private double number;  
}  
  
public class Quiz5 extends Class2,class1{  
    private int result;  
}
```

class Quiz5 can't extend from multiple classes (e.g Class2, class1)

The correct answer is not displayed for Written Response type questions.

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A Java class cannot extend more than one class. Class Quiz5 is extending two classes, class1 and Class2, this is a compile error

Use the following class definition to answer the questions below

```
public class BankAccount{ // implementation omitted }  
  
public class SavingAccount extends BankAccount { // implementation omitted }  
  
public class CheckingAccount extends BankAccount{ // implementation omitted }  
  
public class Driver{
```

```
public static void main(String[] args){  
  
    BankAccount b = new BankAccount();  
  
    BankAccount s = new SavingAccount();  
  
    BankAccount c = new CheckingAccount();  
  
}  
  
}
```

Question 5**0 / 1 point**

Will the following statement cause a ClassCastException to be thrown

```
SavingAccount s1 = ( ( SavingAccount )b ) ;
```

➡ ☐ a) Yes

☐ b) No

✗ ☐ c) Maybe

Question 6**1 / 1 point**

Will the following statement cause a ClassCastException to be thrown

```
SavingAccount s3 = ( ( SavingAccount) s);
```

☐ a) Yes

✓ ☐ b) No

☐ c) Maybe

Question 7**0 / 1 point**

Will the following statement cause a ClassCastException to be thrown

```
CheckingAccount c2 = ( (CheckingAccount) b);
```

➡ ☐ a) Yes

☐ b) No

✖ ☐ c) Maybe

Question 8

1 / 1 point

Will the following statement cause a ClassCastException to be thrown

CheckingAccount c4 = ((CheckingAccount) s);

✓ ☒ a) Yes

☐ b) No

☐ c) Maybe

Question 9

1 / 1 point

Will the following statement cause a ClassCastException to be thrown

CheckingAccount c3 = ((CheckingAccount) c);

☐ a) Yes

✓ ☒ b) No

☐ c) Maybe

Question 10

3 / 3 points

Ghost inherit from UnrealCriticter. UnrealCriticter has a name. Ghost has a name and an age in months.

Write the code for these two classes. Include appropriate accessor methods and make all fields private. (no need for mutators)

```
public class UnrealCriticter{
    private String name;

    public UnrealCriticter(String name){
        setName(name);
    }

    public void setName(String name){.....};
    public String getName() {return name;}
```

```

}

public class Ghost extends UnrealCriticter{
    private int ageInMonths;

    public Ghost(String name, int ageInMonths){
        super(name);
        setAgeInMonths(ageInMonths);
    }

    public void setAgeInMonths(int ageInMonths){ .....};
    public int getAgeInMonths(){return ageInMonths;}
}

```

The correct answer is not displayed for Written Response type questions.

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```

public class UnrealCriticter {
    private String name;

    public UnrealCriticter(String name){
        this.name =name;
    }

    public String getName(){
        return name;
    }
}

public class Ghost extends UnrealCriticter {
    private int ageInMonths;

    public Ghost(String name, int age){
        super(name);
        ageInMonths = age;
    }
}

```

```
public int getAgeInMonths(){  
    return ageInMonths ;  
}  
}
```

Attempt Score:9 / 12

Overall Grade (highest attempt):9 / 12

Done