

## Quiz 3

Total points 15/15

The respondent's email address (**saad.salim@northsouth.edu**) was recorded on submission of this form.

what would be the output of this program:

2/2

```
class Parent {
    int i=20;
    Parent() {
        i=40;
    }
}

class Child extends Parent{
    int i=30;
}

class Driver{
    public static void main(String args[]){
        Parent p = new Child();
        System.out.println(p.i);
    }
}
```

- ☐ 0
- ☐ 20
- ☐ 30
- ☒ 40



Choose 2 wrong answers from below:

2/2

- ☐ method overriding is possible if only inheritance is in use
- ☒ it is not required to declare the method in parent class to override in subclass
- ☐ in case of overriding, the methods in parent class and child class must have the same signature
- ☒ method overloading and method overriding are the same features of OOP
- ☐ method overriding means the child implementation hides the parent implementation

Suppose you have 3 classes: SmartPhone, Iphone, SamsungPhone. What could be the best relationship among them?

1/1

- ☐ SmartPhone is the child of both Iphone and Samsungphone
- ☐ Iphone is the child of Smartphone and SamsungPhone is the child of Iphone
- ☒ Iphone and Samsungphone are children of SmartPhone
- ☐ SamungPhone and SmartPhone are children of Iphone



what would be the output of this program:

2/2

```
package QUIZ3;
public class Vehicle {
    double engine_cc = 1.5;
}

package QUIZ3;
public class Car extends Vehicle{
    double engine_cc = 2.5;

    void show(double engine_cc){
        System.out.print(engine_cc + ", ");
        System.out.print(this.engine_cc + ", ");
        System.out.print(super.engine_cc);
    }
}

package QUIZ3;
public class Driver {
    public static void main(String[] args) {
        Car c1 = new Car();
        c1.show(3.5);
    }
}
```

- ☐ 2.5, 2.5, 1.5
- ☐ 1.5, 2.5, 1.5
- ☒ 3.5, 2.5, 1.5
- ☐ 1.5, 2.5, 3.5



what is the use of super keyword?

1/1

- ☐ to call parent constructor from child class
- ☐ to call parent fields from child class
- ☐ to call parent methods from the child class
- ☒ all of the above

What restriction is there on using the 'super' reference in a constructor?

1/1

- ☒ It must be used in the first statement of the constructor
- ☐ It must be used in the last statement of the constructor
- ☐ It can only be used in the parent's constructor.
- ☐ Only one child class can use it

True/False: The parent class can hold reference to both the parent and child objects 1/1

- ☒ True
- ☐ False



Protected members can be accessed through inheritance in the same package as well as in a different package.

1/1

- ☐ False
- ☒ True

Two classes 'Vehicle' and 'Car' are written as below. Choose the correct answer based on the code shown:

2/2

```
1 package QUIZ3;
2 public class Vehicle {
3     private double engine_cc;
4     protected String make_year;
5     double weight;
6     public int serial_no;
7 }
8

1 package accesstest2;
2 import QUIZ3.Vehicle;
3
4 public class Car extends Vehicle{
5     Car() {
6         engine_cc = 89;
7         make_year = "2003";
8         weight = 1500;
9         serial_no = 13258;
10    }
11 }
12
```

- ☒ it shows error in Car class in Line 6 and 8
- ☐ The program complies without any error
- ☐ It shows error in Car class in Line 6 and 7
- ☐ It shows error in Car class in Line 7 and 8



'Animal' class has a subclass 'Bird'. which of the statement is correct?

1/1

- ☒ 'Animal' class may have another subclass 'Reptile'
- ☐ 'Bird' can also have another superclass 'Fliers'
- ☐ 'Bird' class can not have any other subclasses
- ☐ 'Animal' class can not have any other child

Which keyword is used in Java to inherit a class?

1/1

- ☐ super
- ☐ this
- ☐ extend
- ☒ extends

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