

OOPJ Practise Quiz - 3

Total points 20/20 ?

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✓ What will be the output of the following code? *

1/1

```
class Animal {  
    void sound() {  
        System.out.println("Animal makes sound");  
    }  
}
```

```
class Dog extends Animal {  
    void sound() {  
        System.out.println("Dog barks");  
    }  
}
```

```
public class Test {  
    public static void main(String[] args) {  
        Animal a = new Dog();  
        a.sound();  
    }  
}
```

- ☐ A) Animal makes sound
- ☒ B) Dog barks
- ☐ C) Compilation error
- ☐ D) Runtime exception



✓ Which of the following is an example of method overriding in Java? * 1/1

- ☒ A) Defining a method in the subclass with the same name and parameters as the superclass method. ✓
- ☐ B) Defining a method with a different name in the subclass.
- ☐ C) Defining a method with the same name but different parameters in the subclass.
- ☐ D) Using the super keyword in a method.

✓ Which of the following describes upcasting in Java? * 1/1

- ☐ A) Assigning a subclass object to a superclass reference.
- ☐ B) Assigning a superclass object to a subclass reference.
- ☐ C) Creating a reference variable for a superclass.
- ☒ D) Both A and C. ✓

✓ What is the result of downcasting a superclass object to a subclass object? *1/1

- ☒ A) It works only if the object is actually an instance of the subclass. ✓
- ☐ B) It is always safe and does not cause any errors.
- ☐ C) It creates a new subclass object.
- ☐ D) It causes a compilation error.



✓ What is the result of the following code? *

1/1

```
String str1 = "Hello";  
String str2 = "Hello";  
System.out.println(str1 == str2);
```

- ☒ A) true
- ☐ B) false
- ☐ C) Compilation error
- ☐ D) Runtime error



✓ Which method is used to compare two strings in Java for equality? *

1/1

- ☒ A) equals()
- ☐ B) ==
- ☐ C) compareTo()
- ☐ D) isEqualTo()



✓ What will be the output of the following code? *

1/1

```
class Parent {  
    private void show() {  
        System.out.println("Parent Show");  
    }  
}  
  
class Child extends Parent {  
    public void show() {  
        System.out.println("Child Show");  
    }  
}  
  
public class Test {  
    public static void main(String[] args) {  
        Parent obj = new Child();  
        obj.show();  
    }  
}
```

- ☐ A) Child Show
- ☐ B) Parent Show
- ☒ C) Compilation error
- ☐ D) Runtime exception



✓ What will be the output of the following code? *

1/1

```
class Base {
    int x;
    Base(int x) {
        this.x = x;
    }
}

class Derived extends Base {
    int y;
    Derived(int x, int y) {
        super(x);
        this.y = y;
    }
    void display() {
        System.out.println("x = " + x + ", y = " + y);
    }
}

public class Test {
    public static void main(String[] args) {
        Derived obj = new Derived(10, 20);
        obj.display();
    }
}
```

- ☒ A) x = 10, y = 20
- ☐ B) Compilation error
- ☐ C) x = 20, y = 10
- ☐ D) Runtime error





What will be the output of the following code? *

1/1

```
public class Test {  
    public static void main(String[] args) {  
        String str = "Java";  
        str.concat(" Programming");  
        System.out.println(str);  
    }  
}
```

- ☐ A) Java Programming
- ☐ B) Compilation error
- ☒ C) Java
- ☐ D) Runtime exception



✓ What will be the output of the following code? *

1/1

```
class A {  
    void show() {  
        System.out.println("Class A");  
    }  
}  
  
class B extends A {  
    void show() {  
        super.show();  
        System.out.println("Class B");  
    }  
}  
  
public class Test {  
    public static void main(String[] args) {  
        B obj = new B();  
        obj.show();  
    }  
}
```

- ☐ A) Class B
- ☐ B) Class A
- ☒ C) Class A Class B
- ☐ D) Compilation error





What will be the output of the following code? *

1/1

```
int[] arr = {10, 20, 30};  
System.out.println(arr[3]);
```

- ☐ A) 30
- ☐ B) 10
- ☒ C) IndexOutOfBoundsException
- ☐ D) Compilation error





What will be the output of the following code? *

1/1

```
public class Test {  
    public static void main(String[] args) {  
        int i = 1;  
        switch(i) {  
            case 1:  
                System.out.print("One");  
            case 2:  
                System.out.print("Two");  
                break;  
            default:  
                System.out.print("Default");  
        }  
    }  
}
```

- ☒ OneTwo
- ☐ One
- ☐ Two
- ☐ Default
- ☐ Compilation error



✓ What will be the output of the following code? *

1/1

```
class A {  
    static void print() {  
        System.out.println("A print");  
    }  
}  
  
class B extends A {  
    static void print() {  
        System.out.println("B print");  
    }  
}  
  
public class Test {  
    public static void main(String[] args) {  
        A obj = new B();  
        obj.print();  
    }  
}
```

- ☒ A) A print
- ☐ B) B print
- ☐ C) Compilation error
- ☐ D) Runtime exception



✓ What is the output of the following code? *

1/1

```
String str1 = "Java";  
String str2 = "Java";  
String str3 = new String("Java");  
  
System.out.println(str1 == str2);  
System.out.println(str1 == str3);  
System.out.println(str1.equals(str3));
```

- ☐ A) true true true
- ☒ B) true false true
- ☐ C) false true true
- ☐ D) false false true



✓ What will be the output of the following code? *

1/1

```
StringBuilder sb = new StringBuilder("Hello");  
sb.append(" World");  
System.out.println(sb);
```

- ☒ A) Hello World
- ☐ B) World Hello
- ☐ C) HelloWorld
- ☐ D) Compilation error





What will be the output of the following code? *

1/1

```
String str = "Test";  
str = str + "ing";  
System.out.println(str);
```

- ☒ A) Testing
- ☐ B) Test ing
- ☐ C) Test + ing
- ☐ D) Compilation error



Which method is defined in the Object class? *

1/1

- ☐ A) clone()
- ☐ B) toString()
- ☐ C) equals()
- ☒ D) All of the above



What does the toString() method in the Object class return by default? * 1/1

- ☒ A) The class name followed by the hashCode of the object
- ☐ B) The name of the object
- ☐ C) A detailed description of the object
- ☐ D) The type of the object



✓ Which of the following is the return type of the toString() method in the Object class? *1/1

- ☐ A) Object
- ☒ B) String
- ☐ C) char[]
- ☐ D) int



✓ What is the return type of the hashCode() method in the Object class? * 1/1

- ☐ A) Object
- ☐ B) String
- ☒ C) int
- ☐ D) long



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