

Exercise 1

What will be printed out when the following code is executed?

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```
switch (5) {  
    case 0:  
        System.out.println("zero");  
        break;  
    case 1:  
        System.out.println("one");  
    default:  
        System.out.println("default");  
    case 2:  
        System.out.println("two");  
}
```

- a- one
- ✓ b- default and two
- c- one, two, and default
- d- Nothing, a compile-time error is generated

Exercise 2

Résultat du programme

```
public class Test {  
  
    public static void main(String args[]) {  
        int [] numbers = {10, 20, 30, 40, 50};  
  
        for(int x : numbers ) {  
            if( x == 30 ) {  
                continue;  
            }  
            System.out.print( x );  
            System.out.print("\n");  
        }  
    }  
}
```

10
20
40
50

Exercise 3

Which is correct about an instance variable of type String?

- A. It defaults to an empty string.
- ✓ • B. It defaults to null.
- C. It does not have a default value.
- D. It will not compile without initializing on the declaration line.

Exercise 4

How many of the following methods compile?

```
public String convert(int value) {  
    return value.toString();  
}  
public String convert(Integer value) {  
    return value.toString();  
}  
public String convert(Object value) {  
    return value.toString();  
}
```

- A. None
- B. One
- C. Two
- ✓ • D. Three

Exercise 5

Which of the following lines contains a compiler error?

```
String title = "Weather"; // line x1
int hot, double cold; // line x2
System.out.println(hot + " " + title); // line x3
```

- A. x1
 - ✓ B. x2
 - C. x3
 - D. None of the above
-

Exercise 6

What's the output of the following code?

```
public class Main {
    public static void main(String args[]) {
        int i = 0;
        for (; i < 2; i = i + 5) {
            if (i < 5)
                continue;
            System.out.println(i);
        }
        System.out.println(i);
    }
}
```

- a : Compilation error
 - ✓ • b : 0 5
 - c : 0 5 10
 - d : 10
 - e : 0 1 5
 - f : 5
-

Exercise 7

What will be printed out if the following code is run with the java Main hello world command?

```
public class Main{
    public static void main(String argv[]) {
        System.out.println(argv[1]);
    }
}
```

- ✓ • a : world
 - b : hello
 - c : hello world
 - d : ArrayIndexOutOfBoundsException is thrown
-

Exercise 8

Consider the code of Test.java file:

```
package com.udayan.oca;
class Student {
    String name;
    int age;
    void Student() {
        Student("James", 25);
    }
    void Student(String name, int age) {
        this.name = name;
        this.age = age;
    }
}

public class Test {
    public static void main(String[] args) {
        Student s = new Student();
        System.out.println(s.name + ":" + s.age);
    }
}
```

What will be the result of compiling and executing Test class?

- A- James:25
- ✓ B- null:0
- C- An exception is thrown at runtime

Exercise 9

What will be the result of compiling and executing Test class?

```
package com.udayan.oca;
public class Test {
    public static void main(String[] args) {
        String str1 = "Core";
        String str2 = "CoRe";
        System.out.println(str1 = str2);
    }
}
```

- A- true
- B- false
- C- Core
- ✓D- CoRe

Exercise 10

```
class Point {
    int x, y;
    void assign(int x, int y) {
        x = this.x;
        this.y = y;
    }
    public String toString() {
        return "Point(" + x + ", " + y + ")";
    }
}
public class Test {
    public static void main(String[] args) {
        Point p1 = new Point();
        p1.x = 10;
        p1.y = 20;
        Point p2 = new Point();
        p2.assign(p1.x, p1.y);
        System.out.println(p1.toString() + ";" + p2.toString());
    }
}
```

What will be the result of compiling and executing Test class?

- A- Point(10, 20);Point(0, 20)
- B- Point(0, 20);Point(0, 20)
- C- Point(0, 20);Point(10, 20)
- D- None of the other options
- ✓E- Point(10, 20);Point(10, 20)