Examples

WEEK 11

What is the output???

```java
public class Test{

    public static void main(String[] args) {

        Integer x = new Integer(3);
        System.out.println(x.intValue());
        System.out.println(x.compareTo(new Integer(4)));
        System.out.println(Integer.parseInt(x.toString()));
        System.out.println(Integer.parseInt(x.toString(), 10));

    }
}
```

Output:

3

-1

3

3

What is the output???

```java
public class Test {
    public static void main(String[] args) {
        Double x = 4.6;

        System.out.println(x.intValue());

        System.out.println(x.compareTo(4.5));
    }
}
```

Output:
4
1

What is wrong in this code?

```java
public class Test {
    private String text;

    public Test(String s) {
        String text = s;
    }

    public static void main(String[] args) {
        Test test = new Test("ABC");
        System.out.println(test.text.toLowerCase());
    }
}
```

You are creating a second String object named text here.
So, test.text is still null. The code gives a NullPointerException
You have to delete String word in this line

What is wrong in the following program?

```
public class Test {
    String text;
    public void Test(String s) {
        text = s;
    }

    public static void main(String[] args) {
        Test test = new Test("ABC");
        System.out.println(test);
    }
}
```

If we put void here this becomes a class method not a constructor.

In order to get the string as an output we have to write test.text, otherwise it gives the reference of the object test

What is the output???

```
public class Test {
    public static void main(String[] args) {
            System.out.println("Hi, ABC, good".matches("ABC "));
            System.out.println("Hi, ABC, good".matches(".*ABC.*"));
            System.out.println("A,B;C".replaceAll(",;", "#"));
            System.out.println("A,B;C".replaceAll("[,;]", "#"));
            String[] tokens = "A,B;C".split("[,;]");
            for (int i = 0; i < tokens.length; i++)
                    System.out.print(tokens[i] + " ");
    }
}
```

Output:
false
true
A,B;C
A#B#C
A B C

What is the output???

```java
public class Test {
    public static void main(String[] args) {
        String s = "Java";
        StringBuilder builder = new StringBuilder(s);
        change(s, builder);

        System.out.println(s);
        System.out.println(builder);
    }
    private static void change(String s, StringBuilder builder) {
        s = s + " and HTML";
        builder.append(" and HTML");
    }
}
```

Output:
Java
Java and HTML