Class 1

1

- Create int variable name x with value 7.
- Create double variable name d with value 44.3.
- Create String variable name s with value "abc".

2.

- Print result of adding x to d (x+d).
- Print result of adding x to s (x+s).

3.

What will be the values of a, b, c ?

```
public class Main {

    public static void main(String[] args) {
        int a =8;
        a = 17;
        a=9;
        int b = 6;
        int c = a+b;
        b = c+a;
        b=8;
    }
}
```

4.

What are the eight primitive data types supported by the Java programming language?

5.

What is the term "Local variable" means?

6.

What is the term "Global variable" means?

7.

What will be the output?

```java
public class Main {
    public static void main(String[] args) {

        double d = 2.456;
        int a = 5;

        a =(int)d;
        d= (double) a;
        a= (int) d;
        System.out.println(a);
        System.out.println(d);

    }
}
```

8.

How many Strings will be created when running the below code?

```java
public class          {
    public static void main(String[] args) {
        String s = "abc";
        String s2 = "abc";
        String abc = "abc";
    }
}
```

9.

What will be the output of the below program:

```java
public class          {
    public static void main(String[] args) {
        System.out.println(1 + 2 * 3);
    }
}
```

10.

What will be the output of the below program:

```java
public class          {
    public static void main(String[] args) {
        int x = 5;
        double a = 3.6666;
        int y = (int) a;
        System.out.println(x + y);
    }
}
```

11.

The below program output is: `helloworld`

```java
public class        {
    public static void main(String[] args) {
        String hello = "hello";
        String world = "world";
        System.out.println(hello + world);
    }
}
```

How can we create space between the two words?

12.

Why the below program will not compile (run)?

```java
public class        {
    public static void main(String[] args) {
        String super = "super String";
    }
}
```

CHALLENGES:

13.

Create a string variable name s with a numeric value (e.g. String s = "123"), convert s to an int, divide by 2 and print result.

Hint: search string parsing

14.

What is the difference between **a1** and **a2**:

```
public class MyMain {
    public static void main(String[] args) {
        String a1 = "a";
        String a2 = new String( original: "a");
    }
}
```

15.

Why String starts with a Capital (big) letter while the 8 primitive data types start with lowercase (small) letter?