

## Java Week 4

Total Questions: 15

Most Correct Answers: #10

Least Correct Answers: #14

1. When submitting Project 2 for grading, which directory should you zip(compress)?

0/1 ☐ A project2

0/1 ☐ B java111

0/1 ☐ C src

1/1 ☒ D projects

0/1 ☐ E none of the above

2. This is the proper way to define and assign a double:  
double myDouble = 5.9f;

0/1 ☐ A True

1/1 ☒ B False

3. This is the proper way to define and assign a char:  
char myChar = "y";

1/1 ☐ A True

0/1 ☒ B False

4. A program written in Java is run on a standardized hypothetical computer called \_\_\_\_\_.

0/1 ☐ A a transformer

0/1 ☐ B object referencer

0/1 ☐ C a compiler

1/1 ☒ D the java virtual machine

5. In this code snippet, what part is the object reference?

```
SuperHero speedy = new SuperHero();
```

0/1 ☐ A SuperHero

0/1 ☒ B speedy

1/1 ☐ C new SuperHero()

0/1 ☐ D SuperHero()

6. What are the two main types of variables in Java?

0/1 ☐ A int and String

0/1 ☐ B Strings and primitives

0/1 ☐ C doubles and floats

1/1 ☒ D primitives and object references

0/1 ☐ E Primitives and complex variables

7. A class lives in the garbage collection heap.

0/1 ☐ A True

1/1 ☒ B False

8. When does garbage collection happen?

- 0/1 ☐ A When gc.CollectGarbage() is called.
- 0/1 ☐ B Every 5 ms.
- 0/1 ☐ C Every day at 12:01 a.m.
- 1/1 ☒ D We don't know and we don't care.

9. Which of the following will compile?

- 0/1 ☐ A int double = 1;
- 0/1 ☐ B int myInt = 34.5;
- 1/1 ☒ C int myInt = 15;
- 0/1 ☐ D int void = 0;

10. Which of the following is not a primitive type?

- 0/1 ☐ A int
- 0/1 ☐ B byte
- 0/1 ☐ C float
- 1/1 ☒ D String

11. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = null;  
System.out.println(b.title);
```

- 0/1 ☐ A Blue
- 0/1 ☐ B Red
- 0/1 ☐ C a.title
- 0/1 ☐ D b.title
- 1/1 ☒ E Null Pointer Exception

12. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = null;  
System.out.println(a.title);
```

- 0/1 ☐ A Null Pointer Exception
- 1/1 ☒ B Blue
- 0/1 ☐ C Red
- 0/1 ☐ D title
- 0/1 ☐ E a.title

13. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = a;  
System.out.println(b.title);
```

0/1 ☐ A Null Pointer Exception

1/1 ☒ B Blue

0/1 ☐ C Red

0/1 ☐ D a.title

0/1 ☐ E b.title

14. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = a;  
a = null;  
System.out.println(b.title);
```

1/1 ☐ A Null Pointer Exception

0/1 ☒ B Blue

0/1 ☐ C Red

0/1 ☐ D a.title

0/1 ☐ E null

15. Assume the code snippet below is within a valid class and main method. Choose the answer that describes the proper output:

```
Book a = new Book();  
Book b = new Book();  
a.title = "Blue";  
b.title = "Red";  
b = a;  
b.title = "Green";  
System.out.println(a.title);
```

0/1 ☐ A Null Pointer Exception

0/1 ☐ B Blue

0/1 ☐ C float

1/1 ☒ D Green