



Java Quiz: Chapter 9

Guidelines: Answer the questions below by ticking the box next to the correct response(s) to each question. Be sure to check your answers to ensure that they are correct.

1. What is 'volatile memory'?

Choose one answer.

- ☒ A. **Volatile memory is memory that requires power, such as RAM**
- ☐ B. Volatile memory is memory that does not require power, such as the hard disk drive
- ☐ C. Volatile memory is memory that is prone to system errors
- ☐ D. Volatile memory is memory that is solely used by the operating system

2. What is 'non-volatile memory'?

Choose one answer.

- ☐ A. Non-volatile memory is memory that requires power to retain its data, such as RAM
- ☒ B. **Non-volatile memory is memory that does not require power to retain its data, such as the hard disk drive**
- ☐ C. Non-volatile memory is memory that is prone to system errors
- ☐ D. Non-volatile memory is memory that is solely used by the operating system

3. What would be the output (to the text file) of this statement?

```
FileWriter writeObj;  
PrintWriter printObj;  
String myText = "Hello text file";  
try{  
    writeObj = new FileWriter("C:\\Documents\\myText.txt", true);  
    printObj = new PrintWriter(writeObj);  
    printObj.println(myText);  
    printObj.close();  
}catch(Exception ex){  
    System.out.println("Error: " + ex);  
}
```

Choose one answer.

- ☐ A. myText
- ☐ B. C:\\Documents\\myText.txt
- ☐ C. writeObj
- ☒ D. **Hello text file**

4. In the following line of code, what does the 'true' signify?

```
writeObj = new FileWriter("C:\\Documents\\myText.txt", true);
```

Choose one answer.

- ☐ A. To overwrite the text file at the given directory
- ☐ B. To create a copy of the text file at the given directory
- ☒ C. **To append (add to) the text file at the given directory**
- ☐ D. To delete the text file at the given directory

5. In the following line of code, what does the 'false' signify?

```
writeObj = new FileWriter("C:\\Documents\\myText.txt", false);
```

Choose one answer.

- ☒ A. To overwrite the text file at the given directory
- ☐ B. To create a copy of the text file at the given directory
- ☐ C. To append (add to) the text file at the given directory
- ☐ D. To delete the text file at the given directory

6. In the following code, what is the purpose of the [.close()] method?

```
FileWriter writeObj;  
PrintWriter printObj;  
String myText = "Hello Text-file";  
try{  
    writeObj = new FileWriter("C:\\Documents\\myText.txt", true);  
    printObj = new PrintWriter(writeObj);  
    printObj.println(myText);  
    printObj.close();  
}catch(Exception ex){  
    System.out.println("Error: " + ex);  
}
```

Choose one answer.

- ☐ A. To close the text file and remove it from memory
- ☒ B. To close the stream and release all of the associated system resources
- ☐ C. To close the command-line
- ☐ D. To close the javac compiler

7. What is the main purpose of this code?

```
import java.io.*;  
public class MyTextReader{  
    public static void main(String[] args){  
        String myDirectory = System.getProperty("user.dir");  
        String fullDirectory = myDirectory + "\\myText.txt";  
        String input_line = null;  
        try{  
            BufferedReader re = new BufferedReader(new  
                FileReader(fullDirectory));  
            while ((input_line = re.readLine()) != null){  
                System.out.println(input_line);  
            }  
        }catch(Exception ex){  
            System.out.println("Error: " + ex);  
        }  
    }  
}
```

Choose one answer.

- ☐ A. To read all lines of text from a text file and save them to the 'user.dir' directory
- ☐ B. To read all lines of text from a text file and store those lines into a file reader
- ☐ C. To read all lines of text from a text file and store those lines into an array list
- ☒ D. To read all lines of text from a text file and print those lines to the command-line

8. In the following code, what is the purpose of this line

`[while((input_line = re.readLine()) != null){}]?`

```
import java.io.*;
public class MyTextReader{
    public static void main(String[] args){
        String myDirectory = System.getProperty("user.dir");
        String fullDirectory = myDirectory + "\\myText.txt";
        String input_line = null;
        try{
            BufferedReader re = new BufferedReader(new
            FileReader(fullDirectory));
            while((input_line = re.readLine()) != null){
                System.out.println(input_line);
            }
        }catch(Exception ex){
            System.out.println("Error: " + ex);
        }
    }
}
```

Choose one answer.

- ☐ A. To determine whether the text file is empty or not
- ☐ B. To wait a 'while' until the text file contains data
- ☒ C. **To continue to loop through each line of text in the text file, until there are no lines remaining**
- ☐ D. To set the input_line variable to null