

Unit 11_010.010 – PrintWriter

Video Length 10:11

1. What class may be used to create a simple text output file?
2. Write the line of code needed to instantiate an object of the `PrintWriter` class. You do not need to handle the exception.
3. Do `print()`, `println()`, and `printf()` methods work with `PrintWriter` objects?
4. Suppose an object called `output` of the `PrintWriter` class has been instantiated. Write the statement needed to write "Hello" to a file.
5. In your own words, explain how opening a `PrintWriter` is similar or different than using a `Scanner` for input.
6. What does it mean when output is "buffered?"
7. What does the `flush()` method do?
8. If a file with the name specified in a `PrintWriter` already exists, what will happen if a new file with the same name is opened?

Unit 11_020 – Appending to a File

Video Length 12:13

9. What class is used to allow `PrintWriter` objects to append to a file?
10. Write the line of code needed to instantiate an object of the `PrintWriter` class so that it will append to an existing file if one exists. You do not need to handle the exception.
11. How is the Exception different when you add the `FileWrite` class to `PrintWriter`? (There are two parts to the answer. What method generates the error, and what is the exception?)

12. What happens if you open a file for appending if the file does not already exist?

Unit 11_030 – Log Files

Video Length 10:45

13. Write the code needed to create a timestamp for the current time.
14. In the output shown on screen during the video, there was "red" code mixed in with the black, but the output did not look to be appearing in logical order. Why didn't the output get printed in the order that we expected?
15. I did not do this calculation in the video. At the end of the video, the following two timestamps are shown. These were subsequent calls during the same program run. Approximately how many nanoseconds passed between the two calls?

```
2023-11-05T16:15:02.020411021 Error: ....  
2023-11-05T16:15:02.023538839 Error: ....
```

The first time would be 020411021 nanoseconds. This is 020.411021 milliseconds. Approximately how many milliseconds passed between the first call and the second call?

Please write any lingering questions you have here.