

**1) Can data in memory be called a file? Explain.**

- Yes, data in memory can be called a file because it is a collection of data that helps programs and apps run smoothly. Data in-memory main purpose is to build a database that relies on memory for data storage.

**2) Write the import statement required to access the File Class in an application.**

- The import statement required for importing the file class is `java.io.File`.

**3) Identify the error in the following statement `File textFile = new File("c:\inventory.txt");`**

- The error in this statement is that an escape sequence (`\\`) is not used to separate the drive, folder and filename.

**4) Which statement is used to write an exception handler?**

- The try- catch-finally statement is used to write an exception handler.

**Write an exception handler to handle an IOException if a specified file name cannot be used to create a file. The exception handler should display appropriate messages to the user.**

- ```
catch (IOException e)
{
    System.out.println("File could not be created");
    System.err.println("IOException: " + e.getMessage());
}
```

**5) What is the name of the stream for displaying error messages?**

- The name of the stream for displaying error messages is known as Standard output. The standard output is used to display error messages and other messages that can be seen.

**Where are these messages displayed?**

- The messages are displayed on the screen of the computer that initiated the program so for eclipse it would be displayed on the console page.