```html

# **Computer Science**

# Java File I/O and String Handling

#### Given and Introduction:

The task involves understanding Java File I/O operations and basic string handling. The provided program reads contents from a file named "file.txt" and prints each line.

#### Contents of the "file.txt" are given as:

```
Hello CS 1
I hope you are enjoying, yourself!
```

# Step-by-Step Solution:

#### Step 1: Reading the File Content

```
Scanner fileHandler = new Scanner(new File("file.txt"));
```

**Explanation:** A scanner object named fileHandler is created to read from the file "file.txt".

**Supporting Statement:** The scanner class is used for parsing primitive types and strings using regular expressions, and it can be used to read files.

#### **Step 2: Iterating Over Each Line**

```
while (fileHandler.hasNext()) {
 doSomething(fileHandler.nextLine());
}
```

**Explanation:** The while loop checks if there is another line in the file with fileHandler.hasNext(). If there is, it reads the line using fileHandler.nextLine() and passes it to the doSomething method.

**Supporting Statement:** hasNext() method checks if the scanner has another token in its input, and nextLine() method advances the Scanner past the current line and returns the input that was skipped.

#### Step 3: Printing Each Line

```
public static void doSomething(String str) {
 System.out.println(str);
}
```

**Explanation:** The doSomething method takes a string as an argument and prints it using System.out.println().

**Supporting Statement:** System.out.println(str) outputs strings to the console, appending a newline after each string.

### **Step-by-Step Execution with File Content:**

Process the input file:

- 1. Read the first line "Hello CS 1" and print it.
- 2. Read the second line "I hope you are enjoying, yourself!" and print it.

#### **Code Execution:**

```
Hello CS 1
I hope you are enjoying, yourself!
```

## **Final Solution:**

Given the content of the file and the program structure, the output will be:

```
Hello CS 1
I hope you are enjoying, yourself!
```

Thus, the correct option that matches this output is the third one:

• Hello CS 1 I hope you are enjoying, yourself!

This completes the solution step-by-step with detailed explanations and supporting statements.

...