Assignment-8

FIND CHARACTER AT SPECIFIED LOCATION IN A STRING:

CODE:

```
package Assignment8;

import java.util.Scanner;

public class CharacterFinder {

public char characterLocator(String inputString, String position) { lusage

try {

int pos = Integer.parseInt(position);

if (pos >= 0 && pos < inputString.length()) {

return inputString.charAt(pos);

} else {

throw new IndexOutOfBoundsException("Position is out of bounds.");

} catch (NumberFormatException e) {

System.err.println("Number Format Exception");

return '\0'; // '\0' represents null character or an error state

} catch (IndexOutOfBoundsException e) {

System.err.println("StringIndexOutOfBoundsException");

return '\0';

return '\0';

}

}

}
```

```
public static void main(String[] args) {
    CharacterFinder = new CharacterFinder();
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the string:");
    String inputString=sc.nextLine();
    System.out.println("Enter the position:");
    String position = sc.next();
    char result = finder.characterLocator(inputString, position);
    if (result != '\0') {
        System.out.println(result);
    }
}

34  }
35  }
```

Output1:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=58769:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\bin\java.exe" "-javaag
```

Output2:

```
"C:\Program Files\Jave\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=58765:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\b Enter the string:
This is a demo sentence
Enter the position:
```

Output3: