**SCREEN CAPTURE ONE**

A screenshot of a computer

Description automatically generated

**TABLE ONE**

Question: What is the keyboard shortcut for toggling a breakpoint?

Answer: Ctrl+Shift+B

Question: What is the difference between “Step-Over”, “Step-Into”, and “Step-Return”?

Answer:

* **Step Over**: Execute the current line of code, then move to the next line in the method.
* **Step Into**: Means to enter into the method called on the current line, so that we can debug it.
* **Step Return**: Used to Execute the remaining lines of the method and return to the line that it was called from.

List of Methods(in order of call):

1. DebugStar.run(String, int, int) line: 23
2. DebugStar.getOperation(String) line: 12
3. DebugStar.run(String, int, int) line: 23
4. Add.perform(int, int) line: 44
5. DebugStar.run(String, int, int) line: 24
6. DebugStar.run(String, int, int) line: 23
7. DebugStar.getOperation(String) line: 12
8. DebugStar.run(String, int, int) line: 23
9. Subtract.perform(int, int) line: 44
10. DebugStar.run(String, int, int) line: 24
11. DebugStar.run(String, int, int) line: 23
12. DebugStar.getOperation(String) line: 12
13. DebugStar.run(String, int, int) line: 23
14. Factorial.perform(int, int) line: 44
15. DebugStar.run(String, int, int) line: 24

SCREEN CAPTURE: Original Code with line numbers.A screenshot of a computer program

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TABLE TWO

|  |  |  |  |
| --- | --- | --- | --- |
| Line Number | Type of error (compile-time, run-time, or logical) | Description | Correction |
| 26 | java.lang.Error: Unresolved compilation problem:  Syntax error, insert ";" to complete LocalVariableDeclarationStatement  Compile-time |  | added “;” |
| 26 | java.lang.Error: Unresolved compilation problems:  The local variable n may not have been initialized  The local variable n may not have been initialized  Compile-time |  | Initated n, added “n=0;” |
| 48 | Overflow error, compile-time |  | Removed the “=” in the “<=” |
|  | Logical error |  | Changed from “n > 2” to n<2; |
|  | Logical error |  | Because its literally adding the same numbers instead of the other number beside, I changed the second i-1 to i-2 |
|  | Logical error, because its printing out the wrong string |  | The numbers were conjoined together, so I added a comma and space to match the format. |
|  | Logical error |  | Its starting from the 3rd number, but it should start from the first, which is 0 |

SCREEN CAPTURE: Fixed code with line numbers, sample run –> n=10;

A computer screen shot of a program

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