A screenshot of a computer

Description automatically generated

1. What is the eclipse keyboard shortcut for toggling a breakpoint?

Answer: ctrl + shift + B

1. What is the difference between “Step-Over” and “Step-Into” and “Step-Return”

Answer:

Step over If the next instruction is a function call it will step over the function. If the next instruction is not a function it will execute it

Step into If the next instruction is a function call it will enter the function wherever it is called from. If the next instruction is not a function call it will execute it

Step return will exit the current function. Exxecuting until the end of the current function

1. 1. DebugStar.main(String[] args)
   2. DebugStar.run(String, int, int)
   3. DebugStar.getOperation(String)
   4. Add.<init>()
   5. DebugStar.getOperation(String)
   6. DebugStar.run(String, int, int)
   7. Add.perform(int, int)
   8. DebugStar.run(String, int, int)
   9. DebugStar.main(String[] args)
   10. DebugStar.run(String, int, int)
   11. DebugStar.getOperation(String)
   12. Subtract.<init>()
   13. DebugStar.getOperation(String)
   14. DebugStar.run(String, int, int)
   15. Subtract.perform(int, int)
   16. DebugStar.main(String[] args)
   17. DebugStar.run(int)
   18. Factorial.<init>()
   19. DebugStar.run(int)
   20. Factorial.perform(int)
   21. DebugStar.run(int)
   22. DebugStar.main(String[] args)

A computer screen shot of a program

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|  |  |  |  |
| --- | --- | --- | --- |
| Line Number | Type of error (compile-time, run-time, or logical) | Description | Correction |
| 26 | Compile-time | Missing “;” after variable declaration | Added “;” to end of line |
| 27 | Compile-time | N is not initialized to be used in the if statement | Initialized n to “0” |
| 37 | Logical | The while loop is set for n > 2 but it should be n < 2 | Changed the “>” to “<” |
| 48 | Run-time | The while loop was using <= the fibolist.size() which was throwing an error when I was equal to the size of the list | Removed the “=” in the while statement |
| 47 | Logical | I was initialized to 2 so the print statement was not printing the first 2 numbers in the array | Initialized I to 0 |
| 40 | Logical | The second argument in f.add() was grabbing the same number in the list rather than the one before the first argument | Changed the argument to i-2 |
| 49 | Logical | Print statement was not adding “,” after each number | Added + “, “ to the print statement |

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