SI206 Discussion 6

VS CODE

VSCode Debugger

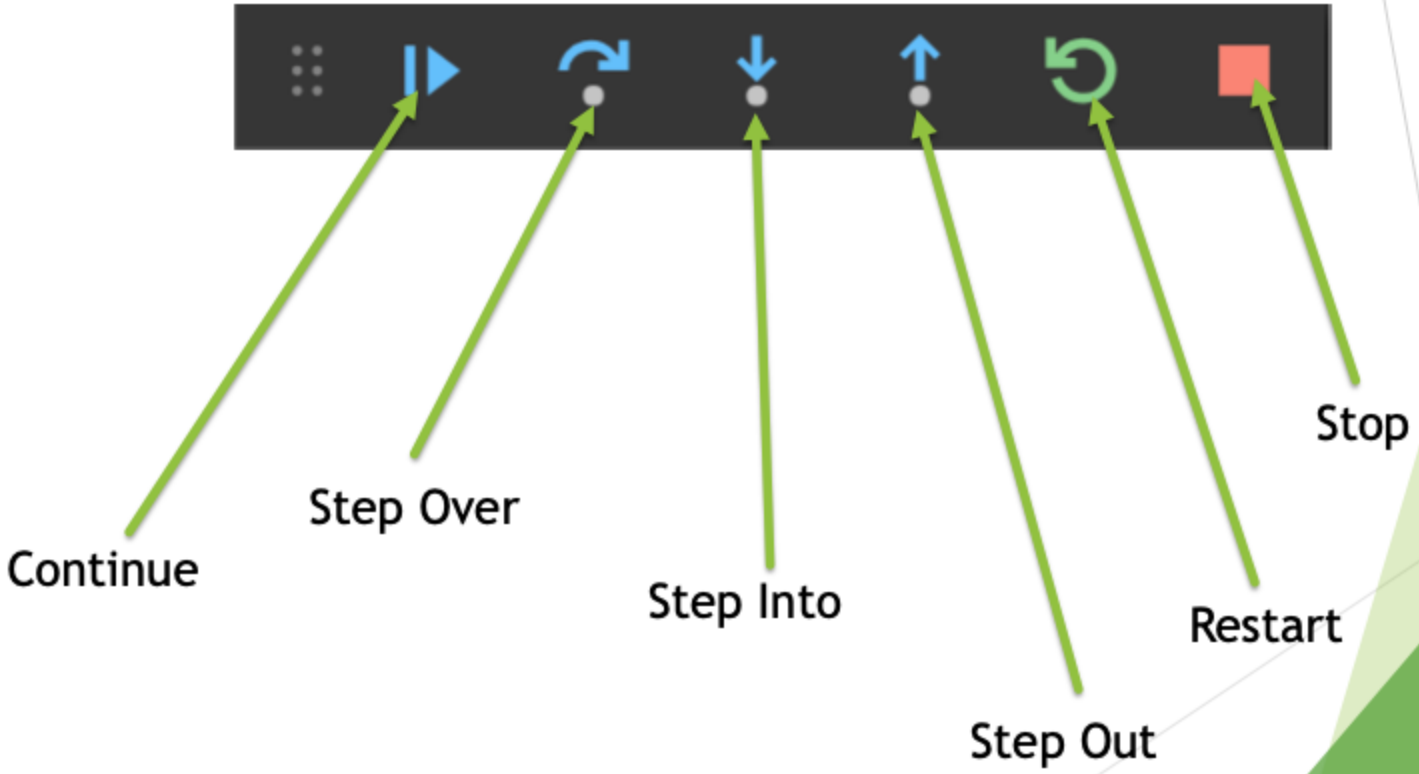
- VSCode has a pretty cool built in debugger that we will be using
- To access it, use the menu at the top or press the bug icon on the left side bar menu
- At the top, you will see a dropdown menu. Select “Python: Current File (Integrated Terminal)”
  - This will open up your current file in the VSCode terminal

Setting Breakpoint(s)

- Setting up breakpoints is helpful when you debug
- Basically, breakpoints tell the debugger when to pause
- To set a breakpoint in VSCode (and most other IDE's, you just need to click *to the left* of the desired line

```
22  def main():
23      my_calc = DiscountCalculator()
24      my_calc.add(2,2)
25      my_calc.subtract(4,3)
26      my_calc.multiply(4,3)
27      my_calc.divide(12, 3)
```

The Debugging Toolbar



Breaking down the Debugging Toolbar

- Continue: continue executing code until next error, breakpoint, or program finishes running
- Step Over: stop after executing the function
- Step Into: stop before executing the first line within the function
- Step Out: exit the current function and stop before executing the line after the function is called
- Restart: restarts debugging of the program
- Stop: stops the debugger

DEMO

APPENDIX

SOME EXTRA TIPS

- Add print statements
- Tab to space and space to tab

Press the F1 key and type convert **tabs** to space or use the Ctrl+Shift+T key binding. This command convert all **tabs to spaces**.

- Use terminal outside of VS code
- Check your python version on the bottom left corner