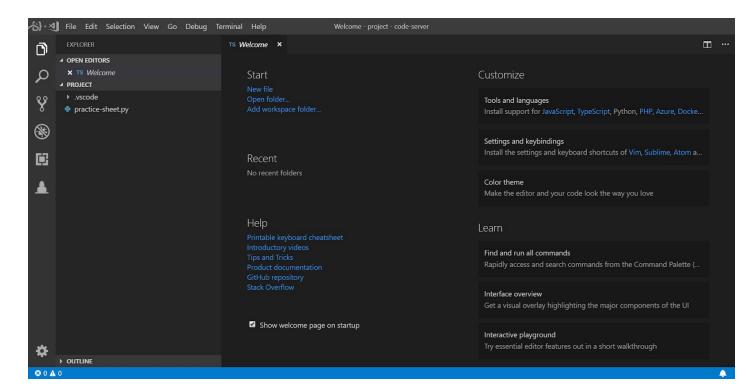
Name	Automating GDB with Python I
URL	https://attackdefense.com/challengedetails?cid=1210
Туре	Offensive Python : Debugging

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

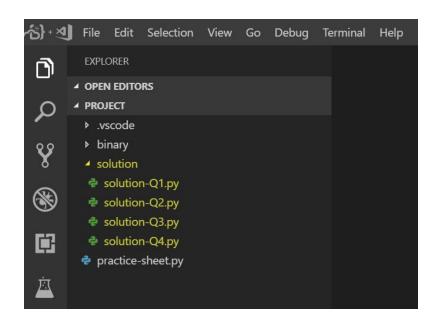
Objective: Use Python pygdbmi library to find all possible values of the exit status codes for all permitted inputs.

Solution:

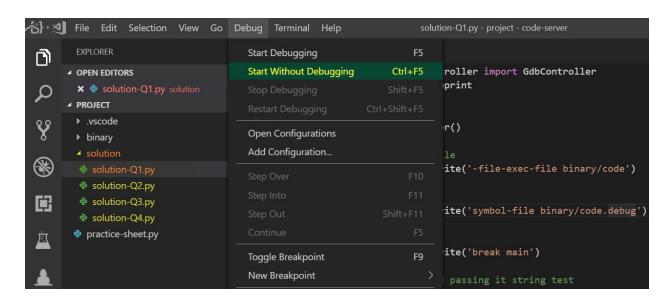
Landing Page:



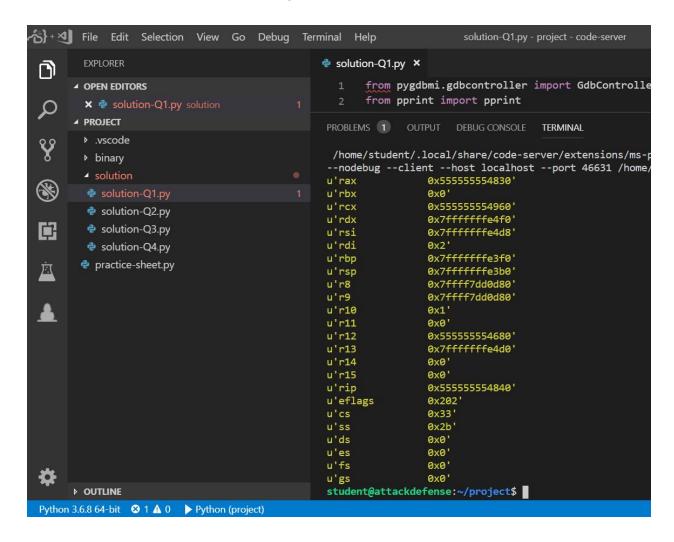
Step 1: Solutions code for all four tasks is given under the solution directory listed in Project Explorer.



Step 2: Open solution-Q1.py. Navigate to Debug Menu and click on "Start Without Debugging option".

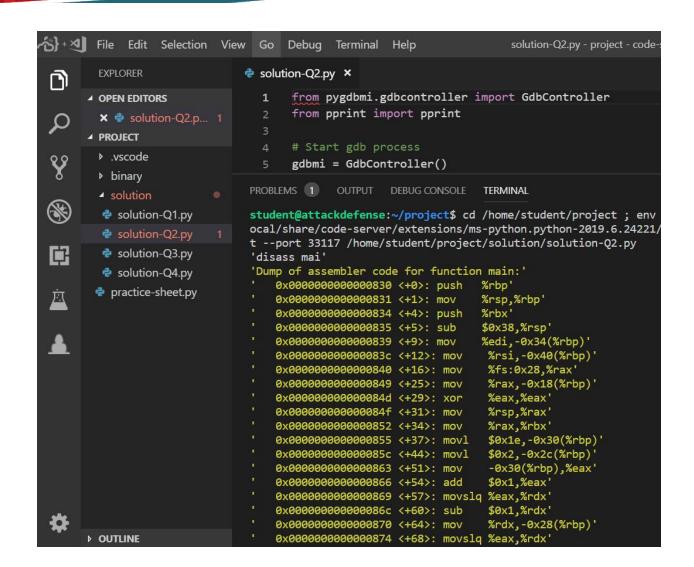


The python script will be executed and the output will be displayed on the integrated terminal. In this case, the output is the list of CPU registers with current values.



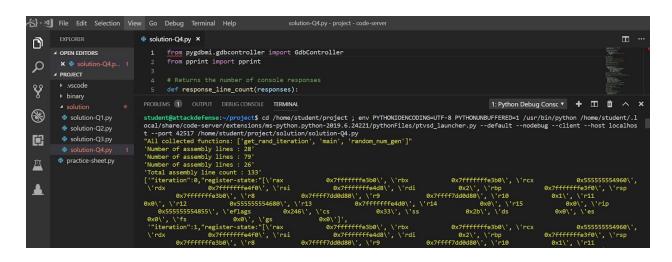
Step 3: Similarly, open solution code for other tasks and run the code to see the output.

a. solution-Q2.py: Assembly code for main function



b. solution-Q3.py: List of all local variables

c. solution-Q4.py: List of register state on each instruction





References:

- 1. Visual Studio Code (https://code.visualstudio.com/)
- 2. VS Code Basic Editing (https://code.visualstudio.com/docs/editor/codebasics)