Debugging the Caesar Cipher Program

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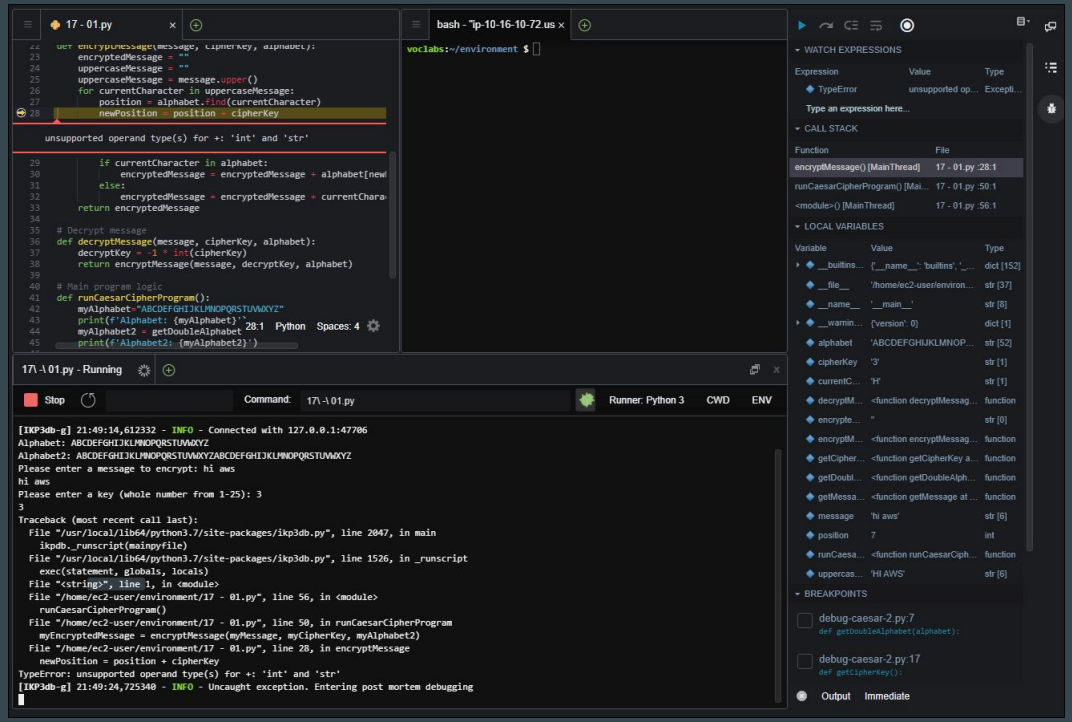
130-[PF]-Lab - Debugging Hello World and Caesar Cipher

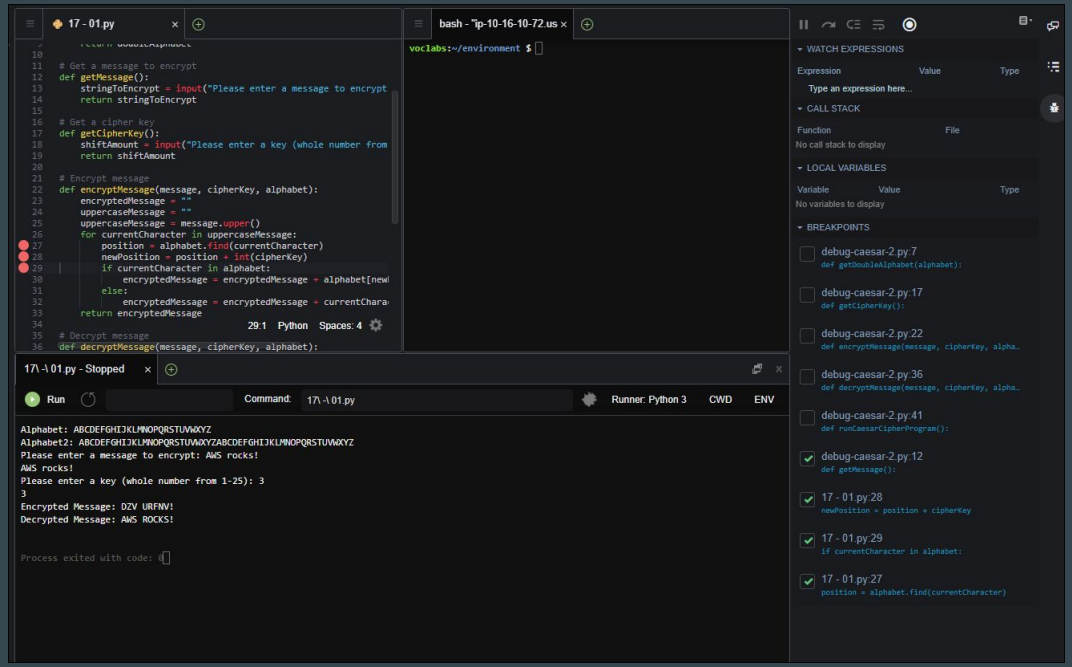
Exercise 1: Working with the buggy Caesar cipher program - Part 1



Problem

- Ran code in debugger
- Received the following error message:
  - "Unsupported operand types(s) for +: 'int' and 'str'
- Meaning that we cannot add a string with an integer

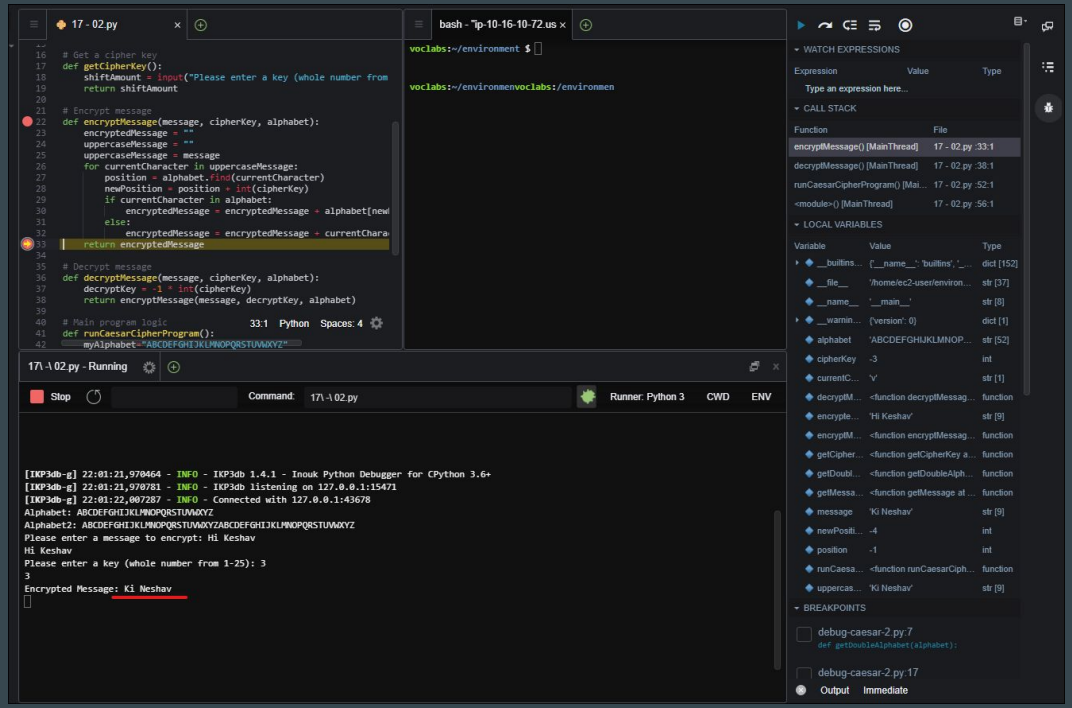
Exercise 1: Working with the buggy Caesar cipher program - Part 1



Solution

- The getCypherKey returns a string
- Therefore turning the cypherKey into an integer within the EncryptMessage function allows it to interact with position of the alphabet

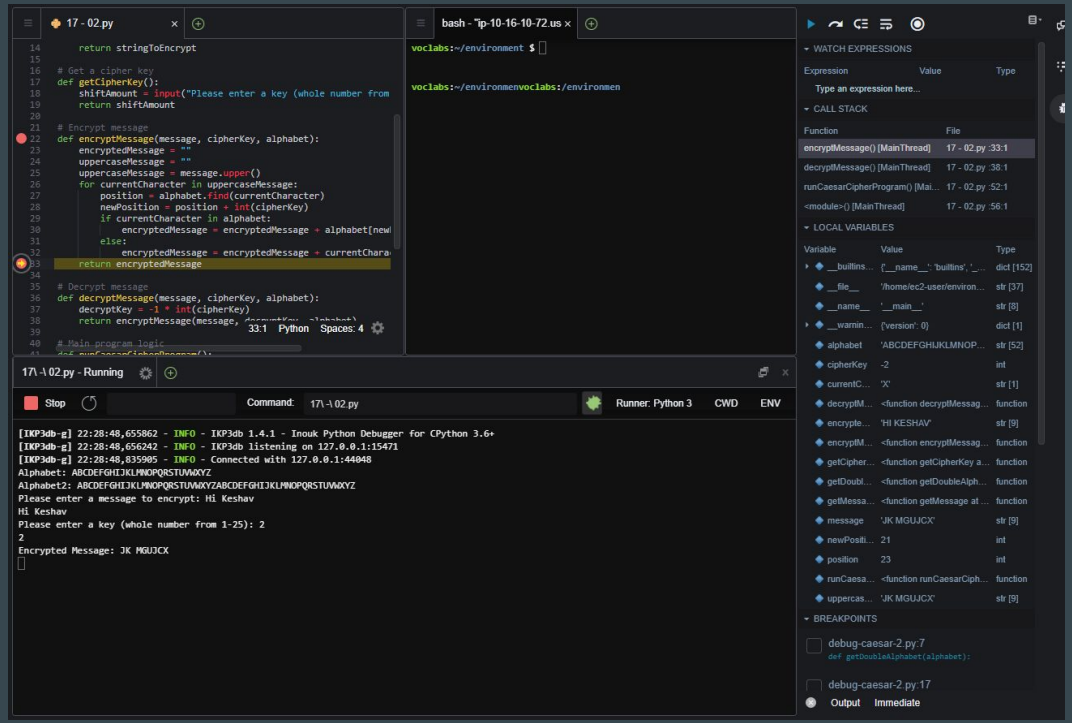
Exercise 2: Working with the buggy Caesar cipher program - Part 2



Problem

- The code encrypted the uppercase letters however did not encrypt the lowercase letters

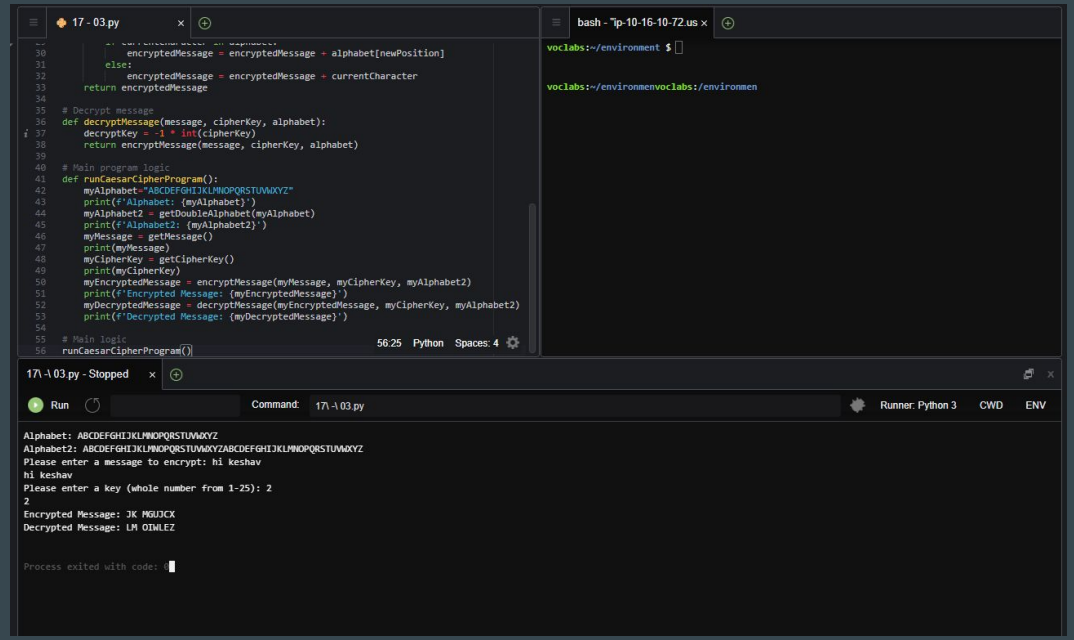
Exercise 2: Working with the buggy Caesar cipher program - Part 2



Solution

- Ensure that all “message” input are converted to uppercase by using “.upper()”

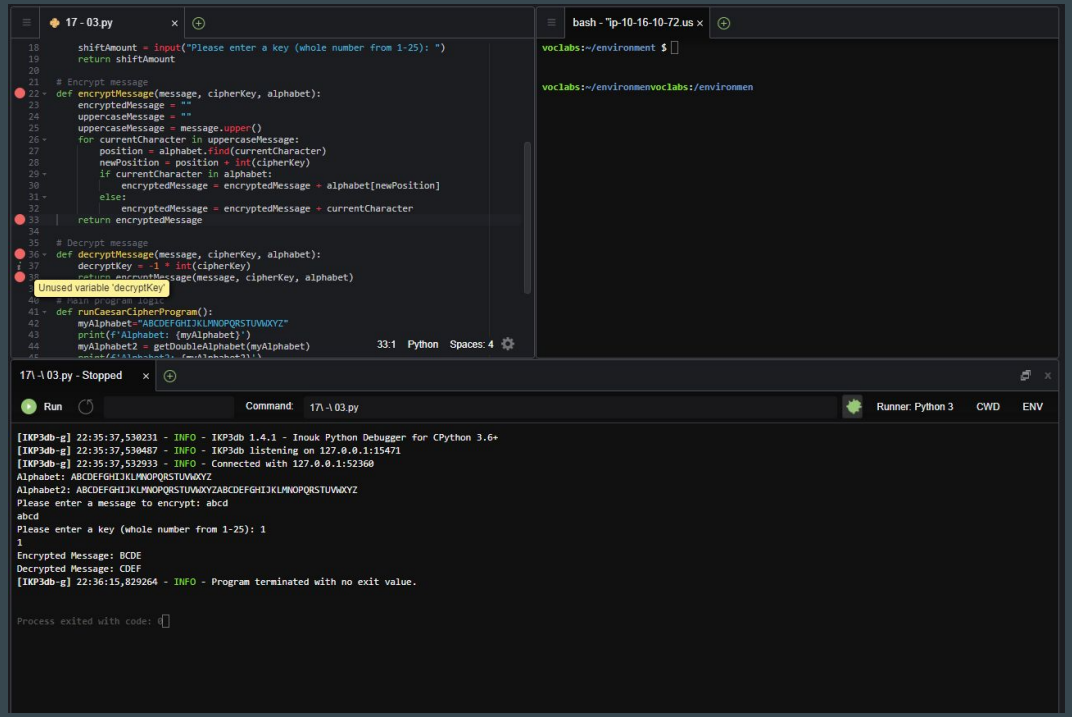
Exercise 3: Working with the buggy Caesar cipher program - Part 3



Problem

- The code was able to encrypt the message, however failed to decrypt the message accurately

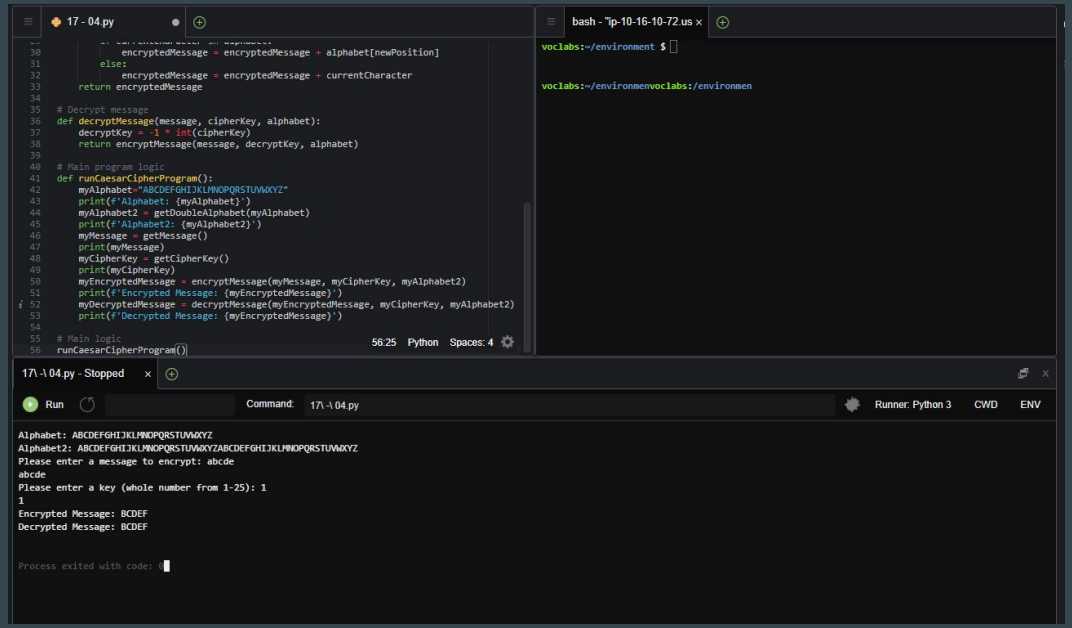
Exercise 3: Working with the buggy Caesar cipher program - Part 3



Solution

- First, I checked the encryption to see if there were any discrepancies
- Then proceeded to run the decryptMessage function and there was a prompt: Unused variable ‘decryptKey’
- Replaced the ‘cipherKey’ variable with the ‘decryptKey’ variable

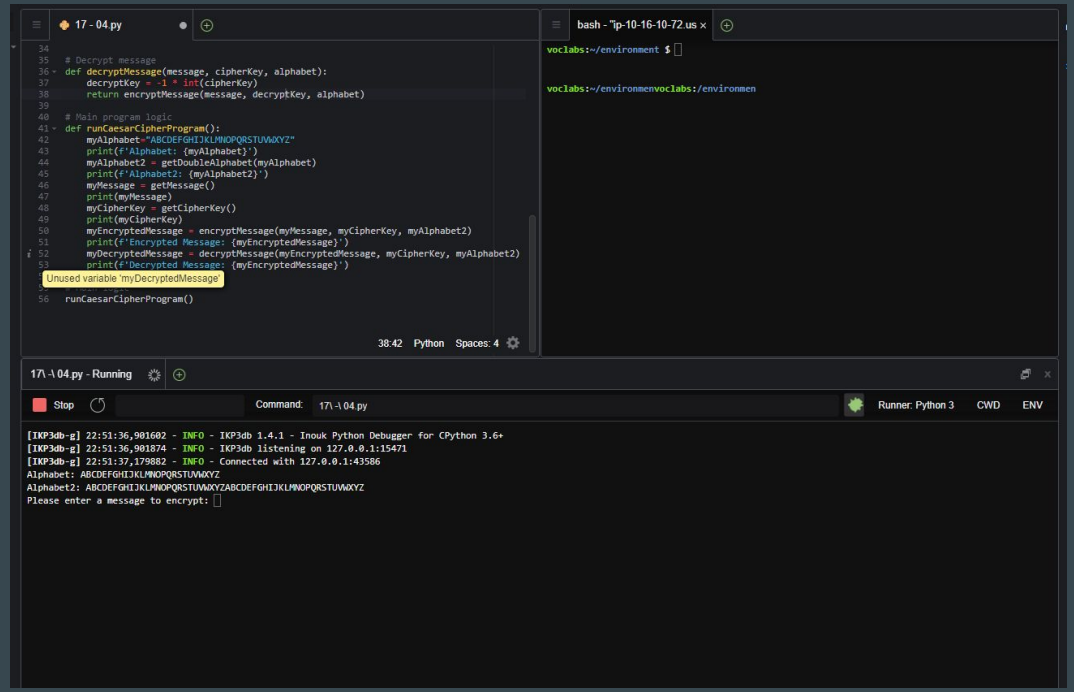
Exercise 4: Working with the buggy Caesar cipher program - Part 4



Problem

- The code was able to encrypt the message but the decrypted message was simply a duplicate of the encrypted message

Exercise 4: Working with the buggy Caesar cipher program - Part 4



Solution

- There was a prompt stating: Unused variable ‘myDecryptedMessage’
- Replaced the {myEncryptedMessage} variable with {myDecryptedMessage}