Jadyn Brabham

Professor Melichar

COP 2373

February 2, 2025

Debugging Exercise Process

After running the original code, I observed that when the price for the “Tablet” was passed as a string it caused a Type Error. It caused this TypeError because arithmetic operations cannot be performed between a string and a float. Using PyCharm’s debugging tools, with breakpoints set to observe the price variable during execution, I confirmed that it was the string in the price for the “Tablet” that was causing the issue in the code. To fix this issue, I modified the calculate\_discount and apply\_discount functions by adding code to convert the price and discount\_amount to a float number using the float() function. Also, in both of those functions, I included a try-except block to handle cases where the price or discount\_amount might be invalid and it provides a error message that informs the user the price or discount\_amount needs to be a valid number. After I added in these modifications, I ran the code to make sure it ran properly. After testing the modified code, I verified that it could handle valid and invalid prices and discount amounts, and that it outputs error messages for invalid prices and processes valid responses appropriately.

Here is my screenshot of the step in the debugging process where the error is in PyCharm:

A screenshot of a computer

Description automatically generated