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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.