1. I used PyCharm's debugging tools to find that the error was arising from a TypeError within the calculate_discount() and apply_discount() functions. This was due to trying to use a string value within arithmetic calculations.
2. I have updated the code to handle the error, printing error messages to alert the developer/user whenever an error occurs and continuing the program by passing by the errored values.
3. I have tested the code to ensure that it works, to which I can confirm that it does.
4. I began the debugging process by identifying where the error was. I read through the code to make sure that I understood what the purpose of the program was. I then ran the program in debug mode, setting breakpoints where possible errors could occur. I step into each process, where I found the source of the error: a TypeError in a calculation. In order to fix such an error, I implemented a Try-Except block to convert both values to floats before conducting any calculations. This would prevent any incorrect types from being passed to the functions, preventing any errors from arising. I implemented testing by passing various values of different types through the program, ensuring that the original error was fixed, as well as not creating any new errors. I then made sure to add comments to my code to ensure the readability of the code.

```
for product in products:   product: {'discount_rate': 0.2, 'name': '
    price = product["price"]   price: '500'
    discount_rate = product["discount_rate"]   discount_rate: 0.15
```

> ⊟ __exception__ = {tuple: 3} (<class 'TypeError'>, TypeError("can't multiply sequence by non-int of type 'float'"), <traceback object at 0x00000'... View
> $_{01}^{10}$ discount_rate = {float} 0.2
> $_{01}^{10}$ price = {str} '500'