Assignment 2
Deadline: 11:59PM on 1 March, 2024

Problem

You are tasked with creating a Python program to manage a small inventory for a store. Your program should allow users to perform various actions such as adding items to the inventory, removing items from the inventory, and displaying the current inventory.

1. **Requirements**

- Implement a Python program that provides a menu-based interface for users to interact with the inventory system.
- Use a dictionary to store information about items in the inventory, where the keys are item names and the values are integers representing the quantity of each item.
- Include the following functionalities:
  - Add an item to the inventory.
  - Remove an item from the inventory.
  - Display the current inventory.
  - Implement appropriate error handling for invalid inputs and edge cases.

2. **Instructions**

- Use a dictionary to store information about each item in the inventory.
- Utilize functions to modularize your code for each functionality.
- Implement error handling to handle invalid inputs and edge cases gracefully.
- Provide a clear and user-friendly interface with appropriate prompts and messages.

```
PS D:\TA\Work 5\work> py code.py

Welcome to the Inventory Management System!

1. Add an item
2. Remove an item
3. Display current inventory
4. Exit

Enter your choice: 1
Enter item name: Apple
Enter quantity: 10
Apple (10) added to the inventory.
```

3. **Save the File Offline**
   - ◆ Click the "Download Code" button/icon to save the file offline.
   - ◆ Rename the downloaded main.py file as a2.py

4. **Report**
   - ◆ Write a report about how you did implemented the solution and how it is efficient.
   - ◆ Include screenshots of your code and output in the report.
   - ◆ Add your names and A numbers in the report.

5. **Submission**
   - ◆ Include your student number as comment at the top of your code i.e #012345.
   - ◆ Make sure to include your partners name and student number as well.
   - ◆ Submit your code as a2.py and report as a2.pdf zipped into an a2.zip file.
   - ◆ Each group makes one submission. That means only one person in a group matkes a submission. Failure to do so will result in penalty.
   - ◆ Absolutely no late submissions
   - ◆ Failure to submit on Moodle will result in 0

6. **Grading**
   - ◆ (1 point) Correctly submitting both files and including your name and correct student number.
   - ◆ (5 point) Correct solution to the problem.
   - ◆ (5 point) Submitting a report with implementation details etc.