Test-Driven Development with AI – Generating and Working with Test Cases

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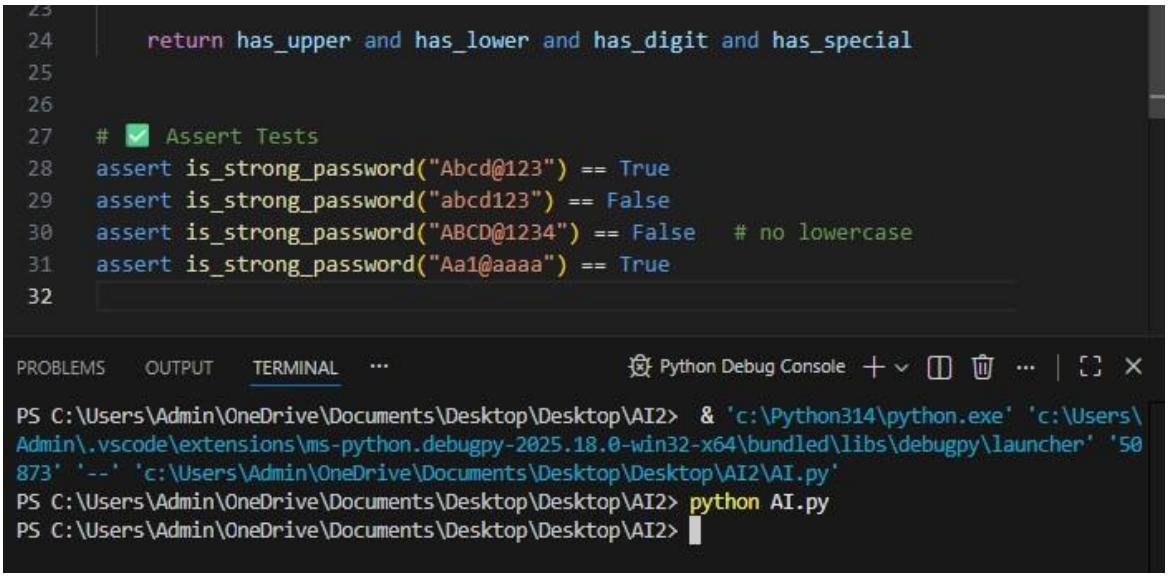
AI Assisted Coding 8_1

TASK 1:

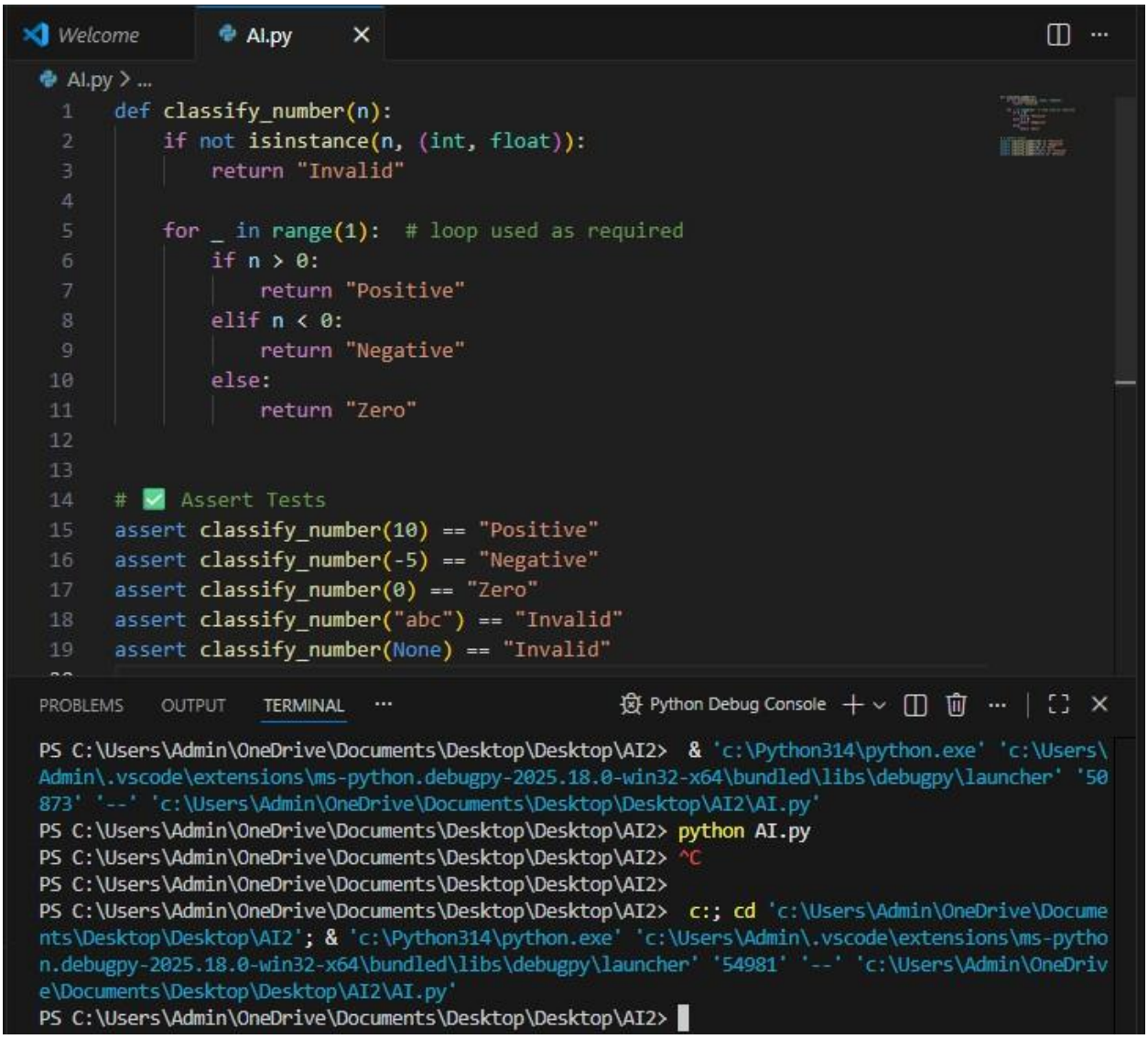
AI.py > ...

```python
import string

def is_strong_password(password):
    if len(password) < 8:
        return False
    if " " in password:
        return False

    has_upper = False
    has_lower = False
    has_digit = False
    has_special = False

    for ch in password:
        if ch.isupper():
            has_upper = True
        elif ch.islower():
            has_lower = True
        elif ch.isdigit():
            has_digit = True
        elif ch in string.punctuation:
            has_special = True

    return has_upper and has_lower and has_digit and has_special
```



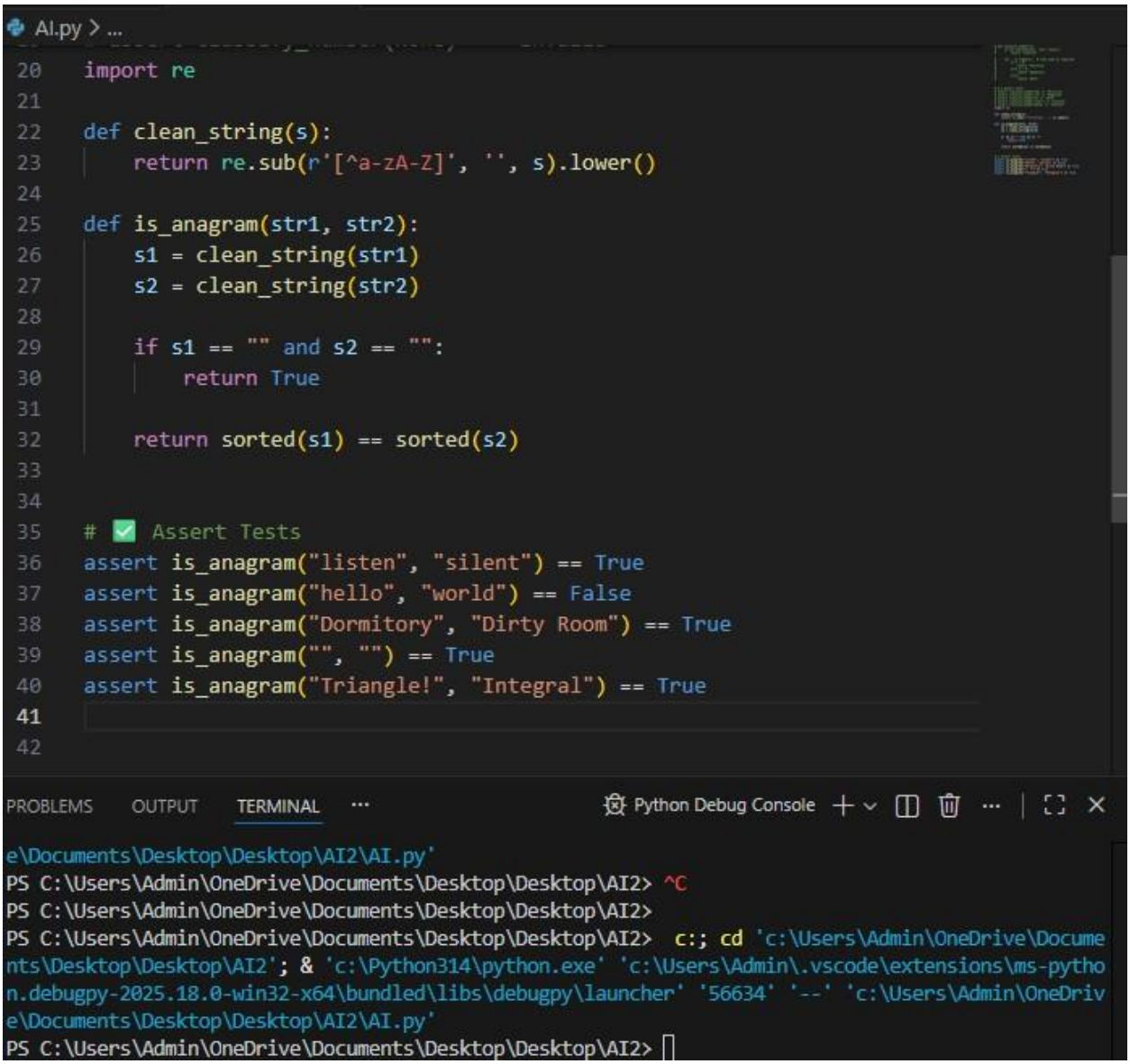
Summary: Implemented a password validator ensuring minimum length, character diversity, and no spaces. All security rules tested with asserts.

Task2:



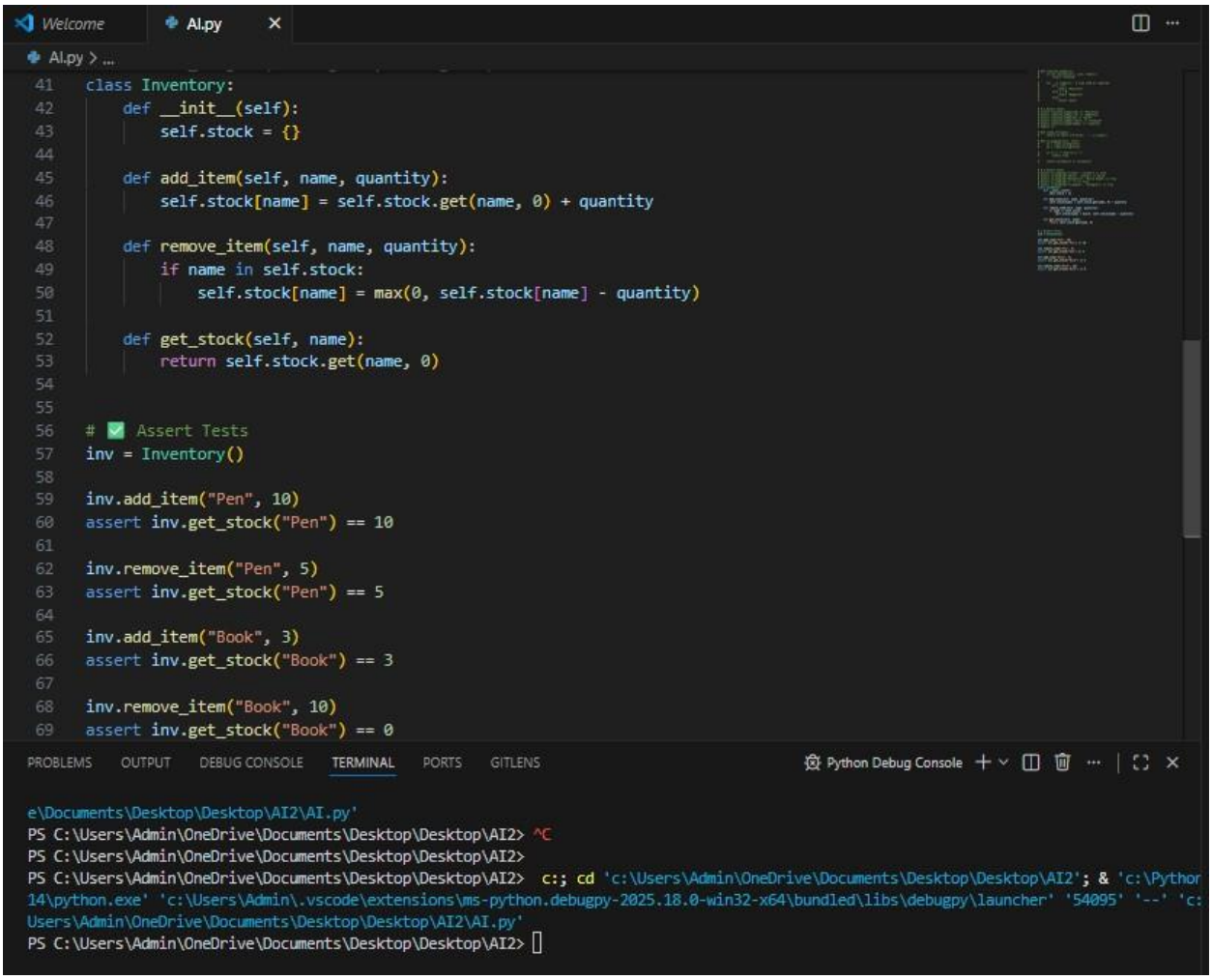
Summary: Created number classifier using loops and handled invalid inputs like strings and None safely.

Task3:



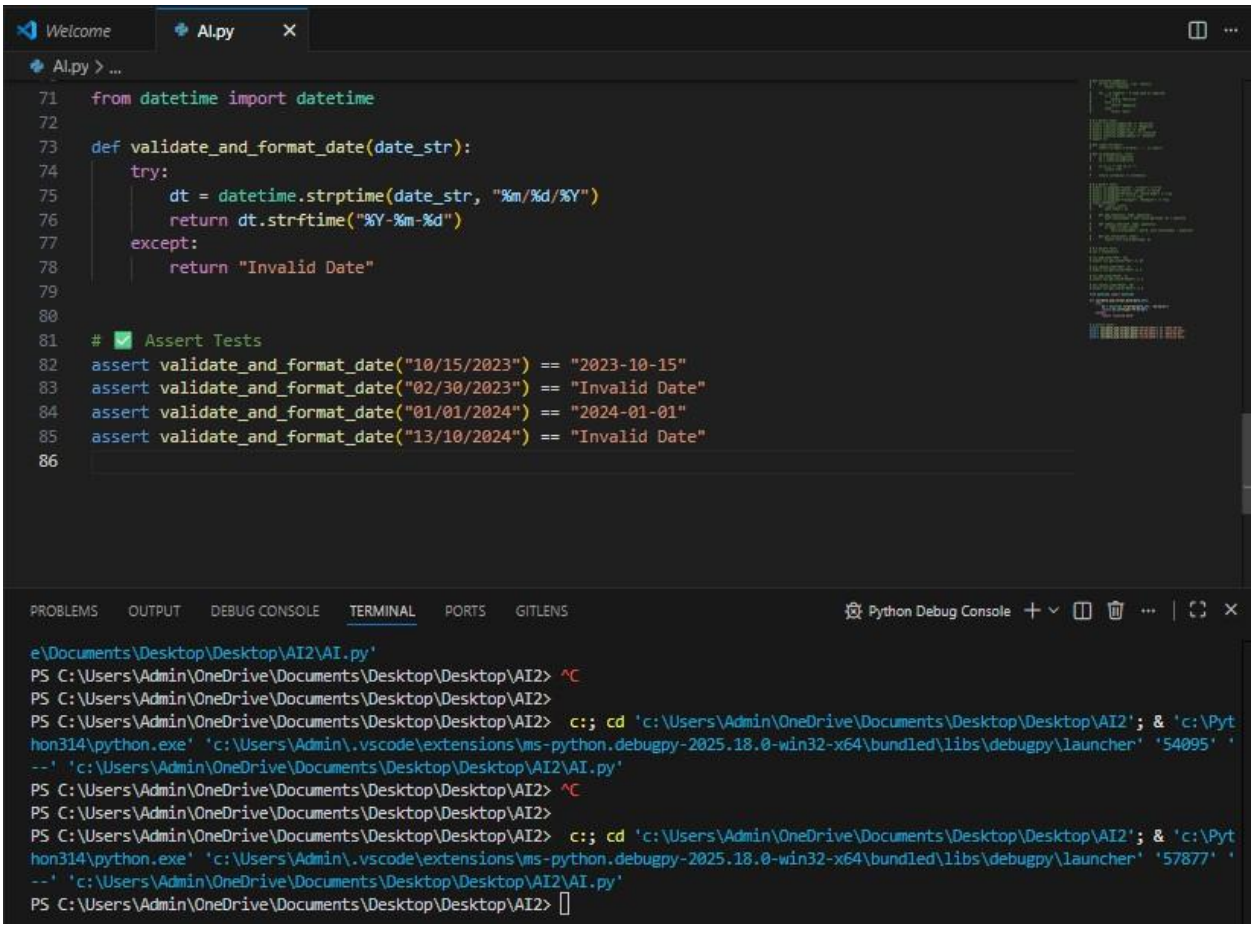
Summary: Built an anagram checker that ignores case, spaces, and punctuation. Handles empty and special cases.

Task 4:



Summary: Designed an Inventory class supporting add, remove, and check stock with safe quantity handling

Task 5:



Summary: Validated dates using datetime and converted valid inputs to standard ISO format while rejecting invalid dates