1. Write a Python code to calculate the sum of odd and even numbers in a given list using GitHub Copilot along with VS Code. Use zero shot prompting

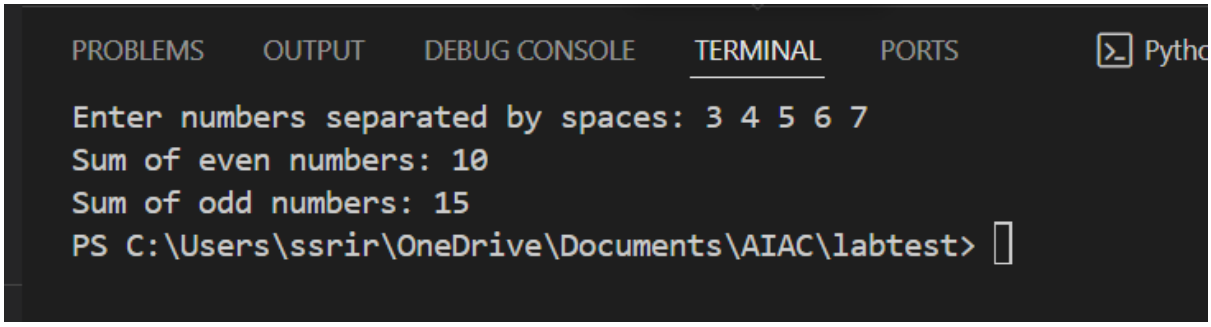
Prompt : Generate a Python function to accept the list of numbers from the user and calculate the sum of odd and even numbers in a given list.

task1.py > ...

```python
def sum_odd_even():
    numbers = input("Enter numbers separated by spaces: ")
    num_list = [int(num) for num in numbers.split()]
    even_sum = sum(num for num in num_list if num % 2 == 0)
    odd_sum = sum(num for num in num_list if num % 2 != 0)
    print(f"Sum of even numbers: {even_sum}")
    print(f"Sum of odd numbers: {odd_sum}")

# Example usage
sum_odd_even()
```

Output :



2. Write a Python code for given a list of integers, remove duplicates and print the sorted result. GitHub Copilot along with VS Code. Use one shot prompting.

Prompt : Generate a Python function that accepts list of integers from the user and removes duplicates and print the sorted result.

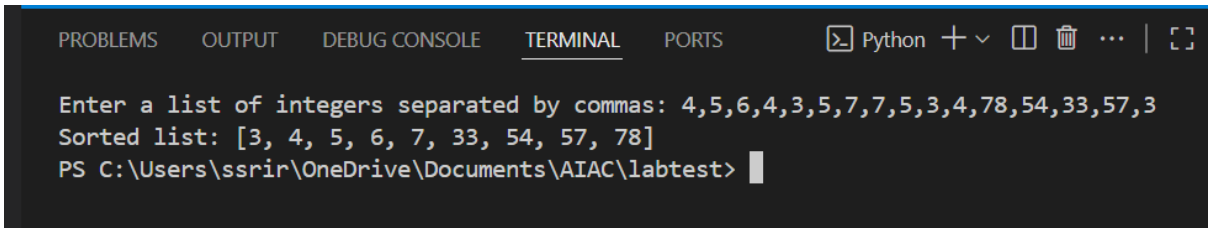
Example : list of integers [4,6 ,8,2,4,7,8,4,5,8,9,2,1,2,3] : sorted list [1,2,3,4,5,6,7,8,9]

task2.py > ...

```python
def process_integers():
    user_input = input("Enter a list of integers separated by commas:
    int_list = [int(x.strip()) for x in user_input.split(',')]
    unique_sorted = sorted(set(int_list))
    print("Sorted list:", unique_sorted)

# Example usage
if __name__ == "__main__":
    process_integers()
```

Output :



3. Write a Python function that converts the temperature between Celsius, Fahrenheit, and Kelvin based on user choice. Use the Cursor AI tool. Use few shot prompting.

Prompt : Write a Python function that converts the temperature between Celsius, Fahrenheit, and Kelvin based on user choice.And display the output. Example 1: 373.0C = 703.40F Example 2 : 100.0C = 373.15K Example 3 : 54.0F = 12.22C Example 4 : 543.0F = 557.04K Example 5 : 373.15K = 100.00C

labtest > task3.py > ...

```python
def convert_temperature():
    print("Temperature Converter")
    print("Choose conversion type:")
    print("1. Celsius to Fahrenheit")
    print("2. Celsius to Kelvin")
    print("3. Fahrenheit to Celsius")
    print("4. Fahrenheit to Kelvin")
    print("5. Kelvin to Celsius")
    print("6. Kelvin to Fahrenheit")
    choice = input("Enter your choice (1-6): ")

    if choice == '1':
        c = float(input("Enter temperature in Celsius: "))
        f = c * 9/5 + 32
        print(f"{c:.2f}C = {f:.2f}F")
    elif choice == '2':
        c = float(input("Enter temperature in Celsius: "))
        k = c + 273.15
        print(f"{c:.2f}C = {k:.2f}K")
    elif choice == '3':
        f = float(input("Enter temperature in Fahrenheit: "))
        c = (f - 32) * 5/9
        print(f"{f:.2f}F = {c:.2f}C")
    elif choice == '4':
        f = float(input("Enter temperature in Fahrenheit: "))
        k = (f - 32) * 5/9 + 273.15
        print(f"{f:.2f}F = {k:.2f}K")
    elif choice == '5':
        k = (f - 32) * 5/9 + 273.15
        print(f"{f:.2f}F = {k:.2f}K")
    elif choice == '5':
        k = float(input("Enter temperature in Kelvin: "))
        c = k - 273.15
        print(f"{k:.2f}K = {c:.2f}C")
    elif choice == '6':
        k = float(input("Enter temperature in Kelvin: "))
        f = (k - 273.15) * 9/5 + 32
        print(f"{k:.2f}K = {f:.2f}F")
    else:
        print("Invalid choice.")

# Call the function
convert_temperature()
```

Ctrl+L to chat, Ctrl+K to generate

Output :

```
wsApps/python3.11.exe c:/Users/ssrir/OneDrive/Documents/AIAC/labtest/task3
Temperature Converter
Choose the conversion type:
1. Celsius to Fahrenheit
2. Celsius to Kelvin
3. Fahrenheit to Celsius
4. Fahrenheit to Kelvin
5. Kelvin to Celsius
6. Kelvin to Fahrenheit
Enter your choice (1-6): 1
Enter temperature in Celsius: 373
373.0°C = 703.40°F
PS C:\Users\ssrir\OneDrive\Documents\AIAC> & C:/Users/ssrir/AppData/Local/
wsApps/python3.11.exe c:/Users/ssrir/OneDrive/Documents/AIAC/labtest/task3
Temperature Converter
Choose the conversion type:
1. Celsius to Fahrenheit
2. Celsius to Kelvin
3. Fahrenheit to Celsius
4. Fahrenheit to Kelvin
5. Kelvin to Celsius
6. Kelvin to Fahrenheit
Enter your choice (1-6): 2
Enter temperature in Celsius: 100
100.0°C = 373.15K
PS C:\Users\ssrir\OneDrive\Documents\AIAC> & C:/Users/ssrir/AppData/Local/
```

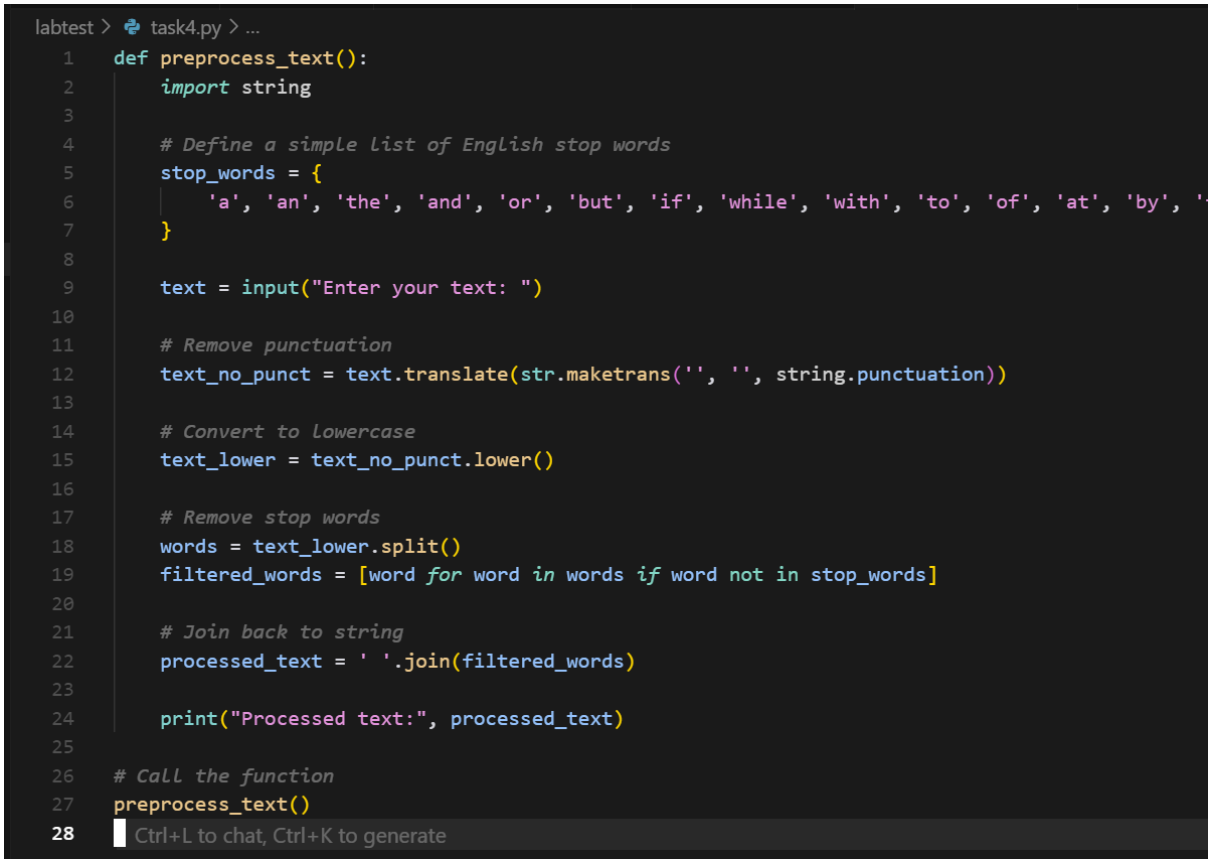
```
wsApps/python3.11.exe c:/Users/ssrir/OneDrive/Documents/AIAC/labtest/
Temperature Converter
Choose conversion type:
1. Celsius to Fahrenheit
2. Celsius to Kelvin
3. Fahrenheit to Celsius
4. Fahrenheit to Kelvin
5. Kelvin to Celsius
6. Kelvin to Fahrenheit
Enter your choice (1-6): 3
Enter temperature in Fahrenheit: 345
345.00F = 173.89C
PS C:\Users\ssrir\OneDrive\Documents\AIAC> & C:/Users/ssrir/AppData/
wsApps/python3.11.exe c:/Users/ssrir/OneDrive/Documents/AIAC/labtest/
Temperature Converter
Choose conversion type:
1. Celsius to Fahrenheit
2. Celsius to Kelvin
3. Fahrenheit to Celsius
4. Fahrenheit to Kelvin
5. Kelvin to Celsius
6. Kelvin to Fahrenheit
Enter your choice (1-6): 4
Enter temperature in Fahrenheit: 54
54.00F = 285.37K
```

```
wsApps/python3.11.exe c:/Users/ssrir/OneDrive/Documen
Temperature Converter
Choose conversion type:
1. Celsius to Fahrenheit
2. Celsius to Kelvin
3. Fahrenheit to Celsius
4. Fahrenheit to Kelvin
5. Kelvin to Celsius
6. Kelvin to Fahrenheit
Enter your choice (1-6): 373.15
Invalid choice.
PS C:\Users\ssrir\OneDrive\Documents\AIAC> & C:/Users
wsApps/python3.11.exe c:/Users/ssrir/OneDrive/Documen
Temperature Converter
Choose conversion type:
1. Celsius to Fahrenheit
2. Celsius to Kelvin
3. Fahrenheit to Celsius
4. Fahrenheit to Kelvin
5. Kelvin to Celsius
6. Kelvin to Fahrenheit
Enter your choice (1-6): 5
Enter temperature in Kelvin: 373.15
373.15K = 100.00C
PS C:\Users\ssrir\OneDrive\Documents\AIAC> & C:/Users
```

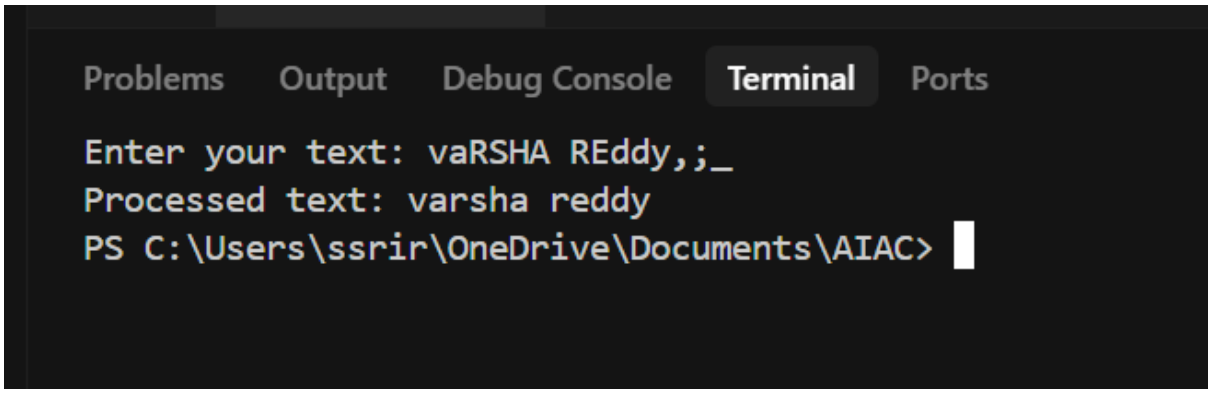
```
PS C:\Users\ssrir\OneDrive\Documents\AIAC> & C:/Users/ssrir/A
wsApps/python3.11.exe c:/Users/ssrir/OneDrive/Documents/AIAC/
Temperature Converter
Choose conversion type:
1. Celsius to Fahrenheit
2. Celsius to Kelvin
3. Fahrenheit to Celsius
4. Fahrenheit to Kelvin
5. Kelvin to Celsius
6. Kelvin to Fahrenheit
Enter your choice (1-6): 6
Enter temperature in Kelvin: 100
100.00K = -279.67F
PS C:\Users\ssrir\OneDrive\Documents\AIAC>
```

4. Write a Python function to remove punctuation, convert to lowercase, and remove stop words from a given text. Use the Cursor AI tool. Use zero shot prompting.

Prompt : Write a Python function to remove punctuation, convert to lowercase, and remove stop words from a text given by the user. And displays the output.



Output :


Problems
Output
Debug Console
Terminal
Ports
Enter your text: vaRSHA REddy,;_
Processed text: varsha reddy
PS C:\Users\ssrir\OneDrive\Documents\AIAC>