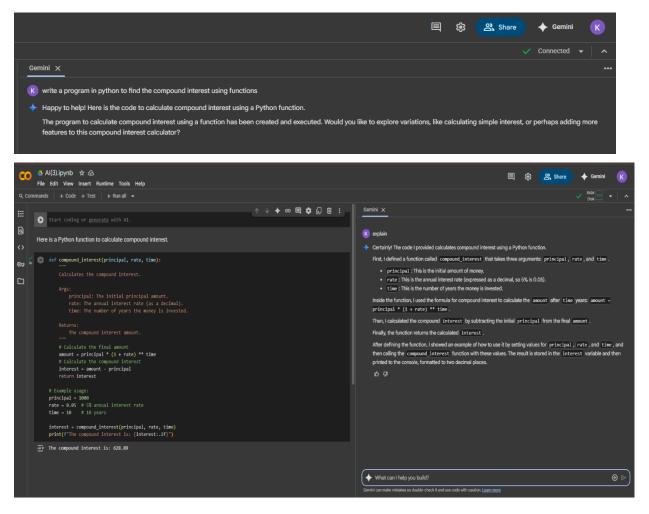
Assignment 3.2

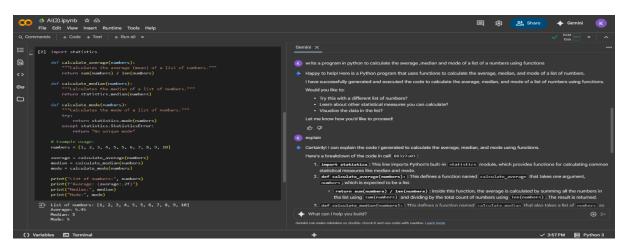
Name: N. Bhanuchander

Roll No: 2403A52118

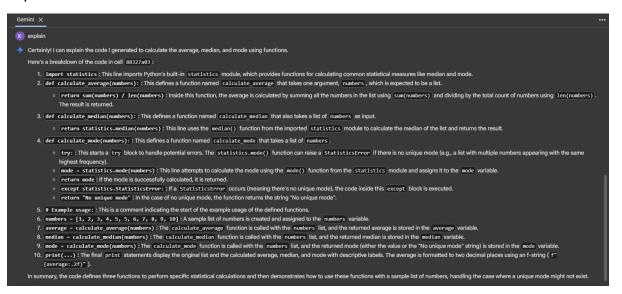
Task 1:



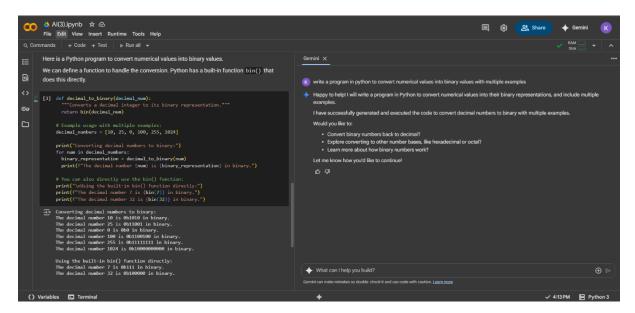
Task 2:



Explanation:



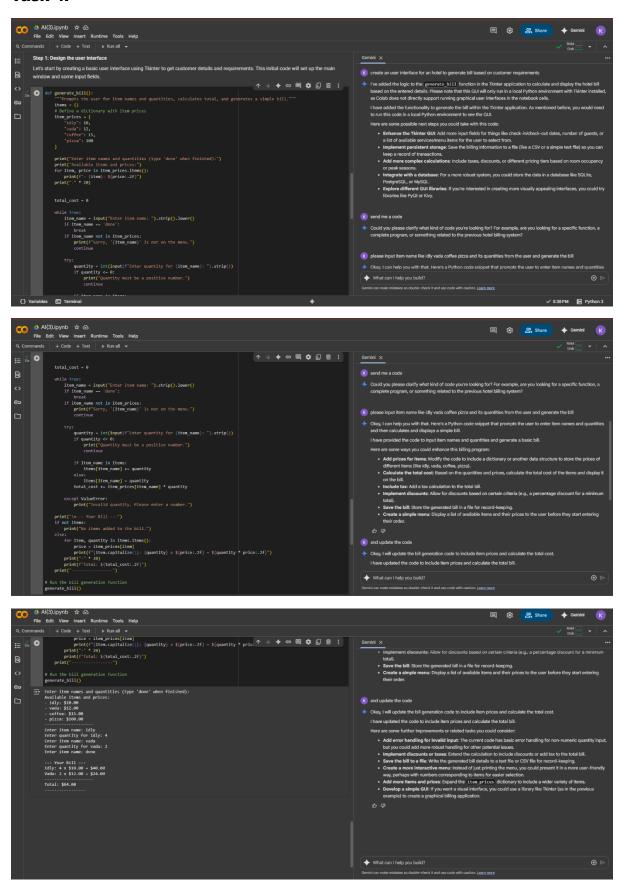
Task 3:



Explanation:



Task 4:



Explanation:

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## operation line by line

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Task 5:

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A (Command)

Q (Command)

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```
# Example Usage:
    celsius_temp = 25.0
    fahrenheit_temp = convert_temperature(celsius_temp, 'C', 'F')
    print(f"{celsius_temp}°C is {fahrenheit_temp:.2f}°F")
    fahrenheit_temp = 77.0
    celsius_temp_from_f = convert_temperature(fahrenheit_temp, 'F', 'C')
    print(f"{fahrenheit_temp}°F is {celsius_temp_from_f:.2f}°C")
    celsius_temp = 0.0
    kelvin_temp = convert_temperature(celsius_temp, 'C', 'K')
    print(f"{celsius_temp}°C is {kelvin_temp:.2f}K")
    kelvin_temp = 300.15
    celsius_temp_from_k = convert_temperature(kelvin_temp, 'K', 'C')
    print(f"{kelvin_temp}K is {celsius_temp_from_k:.2f}°C")
    fahrenheit_temp = 212.0
    kelvin_temp_from_f = convert_temperature(fahrenheit_temp, 'F', 'K')
    print(f"{fahrenheit_temp}°F is {kelvin_temp_from_f:.2f}K")
    kelvin_temp = 373.15
    fahrenheit_temp_from_k = convert_temperature(kelvin_temp, 'K', 'F')
    print(f"{kelvin_temp}K is {fahrenheit_temp_from_k:.2f}°F")
    # Example of invalid unit
        convert_temperature(100, 'X', 'C')
    except ValueError as e:
        print(f"Error: {e}")
        convert_temperature(100, 'C', 'Y')
    except ValueError as e:
        print(f"Error: {e}")

→ 25.0°C is 77.00°F

    77.0°F is 25.00°C
    0.0°C is 273.15K
    300.15K is 27.00°C
    212.0°F is 373.15K
373.15K is 212.00°F
    Error: Invalid 'from_unit': X. Must be 'C', 'F', or 'K'.

Error: Invalid 'to_unit': Y. Must be 'C', 'F', or 'K'.
```

Explanation:

