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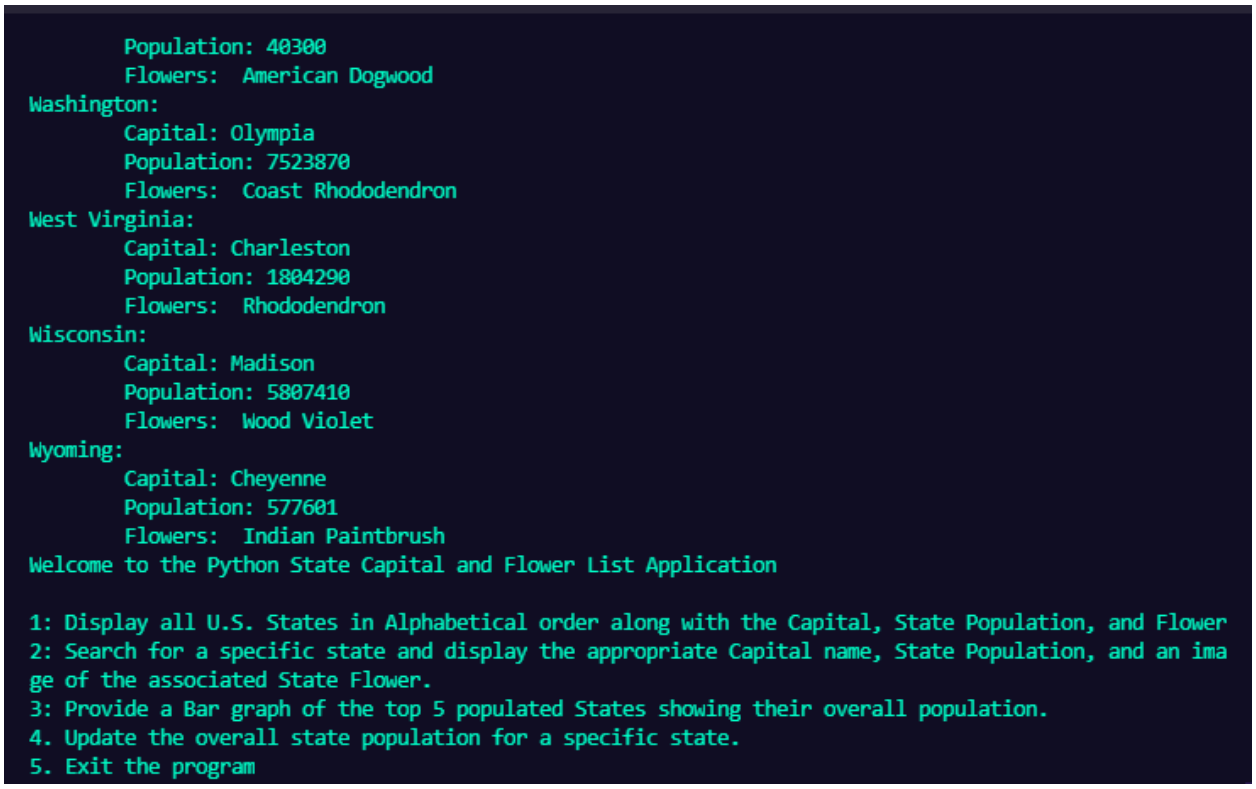
SDEV 300
Lab 3

Tests

Test 1. Option 1



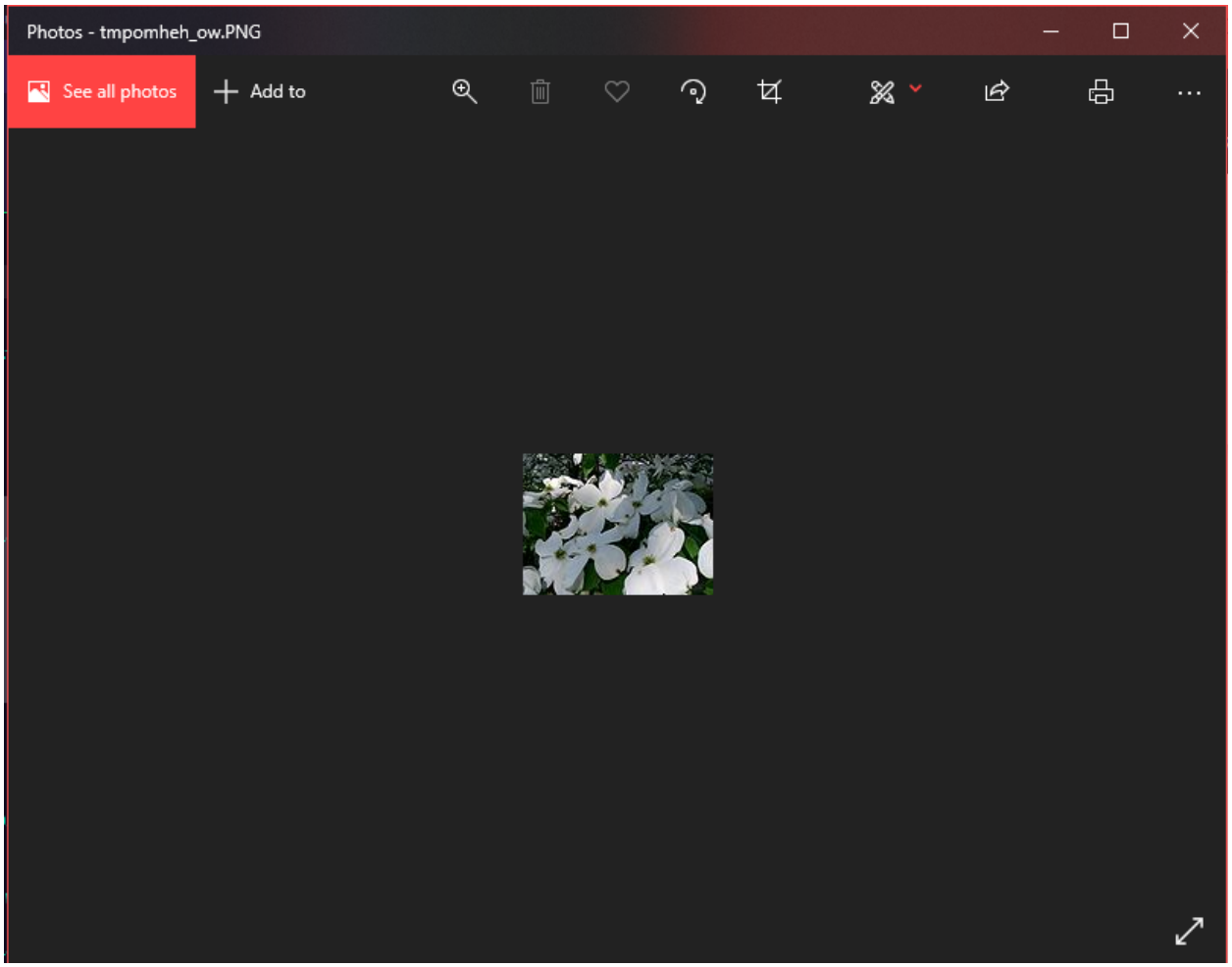
- An entire list of state's data is displayed and the menu is prompted again.

Test 2. Option 2

Input	Expected Output	Actual Output
Option = **2** State = **Virginia**	Enter an option: 2 Please enter a valid US state to search/update: Virginia Virginia: Capital: Richmond Population: 8501290 Flowers: American	Enter an option: 2 Please enter a valid US state to search/update: Virginia Virginia: Capital: Richmond Population: 8501290 Flowers: American Dogwood

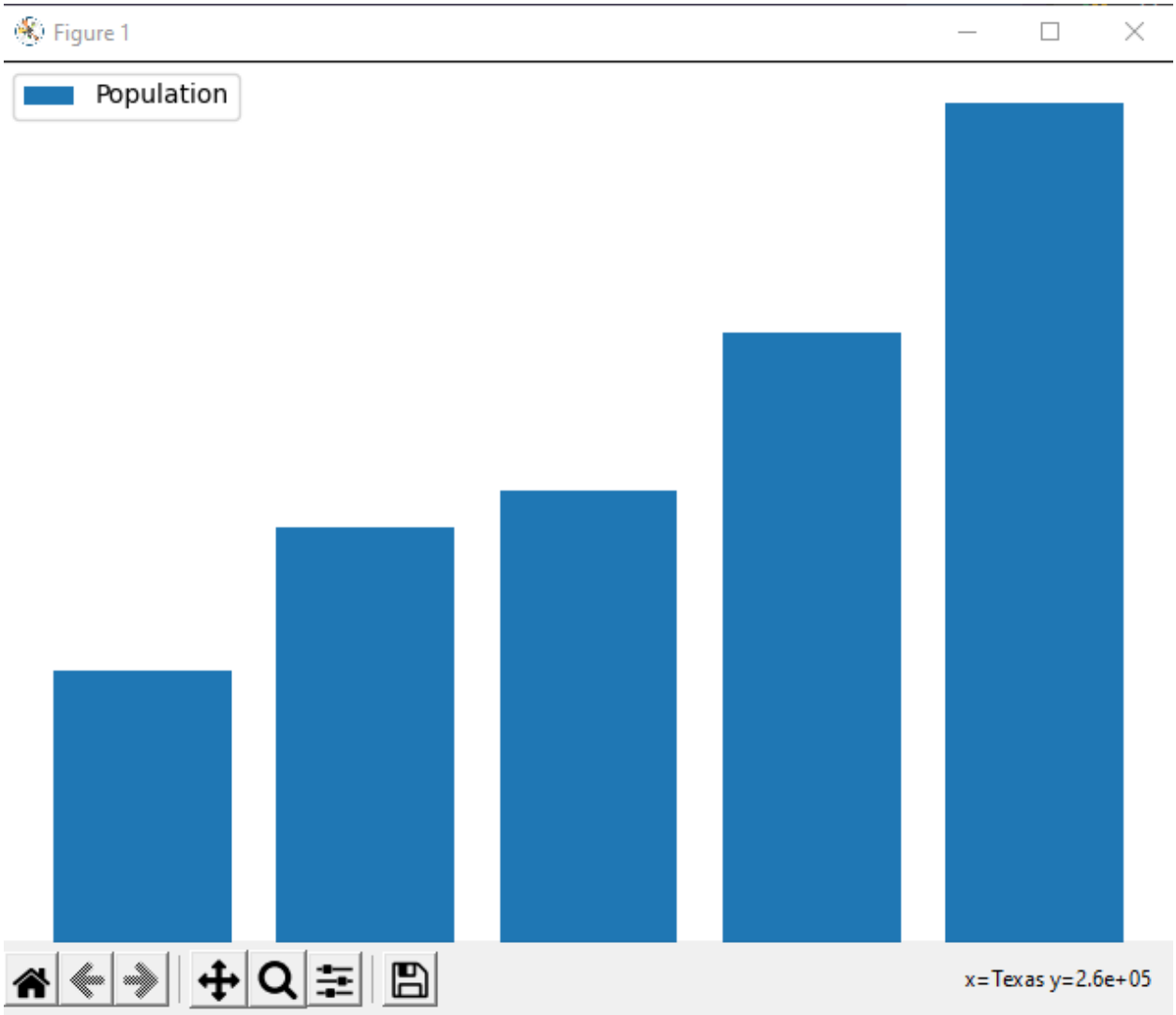
	Dogwood Displaying flower(s)... ***opens default image viewer***	Displaying flower(s)... ***opens default image viewer***

```
Enter an option: 2
Please enter a valid US state to search/update: Virginia

Virginia:
        Capital: Richmond
        Population: 8501290
        Flowers:  American Dogwood

Displaying flower(s)...
```



- Image displayed in different application

Test 3. Option 3



- X and Y values are displayed at the bottom right. Please hover over the bars to see the state name and population.

Test 4. Option 4

Input	Expected Output	Actual Output
Option = **4** State = **Virginia** Population = **540000**	Enter an option: 4 Please enter a valid US state to search/update: Virginia Enter a new population (whole numbers only >= 0): 540000	Enter an option: 4 Please enter a valid US state to search/update: Virginia Enter a new population (whole numbers only >= 0): 540000

	Virginia: Capital: Richmond Population: 540000 Flowers: American Dogwood	Virginia: Capital: Richmond Population: 540000 Flowers: American Dogwood

```
Enter an option: 4
Please enter a valid US state to search/update: Virginia
Enter a new population (whole numbers only >= 0): 540000

Virginia:
        Capital: Richmond
        Population: 540000
        Flowers:  American Dogwood
Welcome to the Python State Capital and Flower List Applic
ation
```

- Prints the new updated State population

Test 5. Option 5

```
Enter an option: 5
Thank you foparticipating! Goodbye.
PS C:\Users\raeba\OneDrive\Desktop\Code\UMG
```

Errors

Error 1. Invalid Menu Option

```
Enter an option: 6
Please enter a valid menu option.

Welcome to the Python State Capital and Flower List Applic
ation

1: Display all U.S. States in Alphabetical order along wit
h the Capital, State Population, and Flower
2: Search for a specific state and display the appropriate
 Capital name, State Population, and an image of the assoc
iated State Flower.
3: Provide a Bar graph of the top 5 populated States showi
ng their overall population.
4. Update the overall state population for a specific stat
e.
5. Exit the program
```

Error 2. Value Errors

```
Enter an option: 4
Please enter a valid US state to search/update: Alaska
Enter a new population (whole numbers only >= 0): 4320.00
Please enter a valid int: -4324234
Please enter a valid int: 43245

Alaska:
        Capital: Juneau
        Population: 43245
        Flowers:  Alpine Forget-me-not
Welcome to the Python State Capital and Flower List Application
```

Error 3. Incorrect State Input

```
Enter an option: 2
Please enter a valid US state to search/update: Montreal
Please enter a valid US state to search/update: West Virginia

West Virginia:
        Capital: Charleston
        Population: 1804290
        Flowers:  Rhododendron

Displaying flower(s)...
```

Pylint

main.py

```
PS C:\Users\raeba\OneDrive\Desktop\Code\UMGC\SDEV300\L3> pylint main.py

--------------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 8.57/10, +1.43)

PS C:\Users\raeba\OneDrive\Desktop\Code\UMGC\SDEV300\L3>
```

lab_three.py

```
PS C:\Users\raeba\OneDrive\Desktop\Code\UMGC\SDEV300\L3> pylint lab_three.py

--------------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 9.57/10, +0.43)

PS C:\Users\raeba\OneDrive\Desktop\Code\UMGC\SDEV300\L3>
```

usa_data_generator.py

```
PS C:\Users\raeba\OneDrive\Desktop\Code\UMGC\SDEV300\L3> pylint usa_data_g
enerator.py

--------------------------------------------------------------------
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)

PS C:\Users\raeba\OneDrive\Desktop\Code\UMGC\SDEV300\L3>
```