CODE 4 WORK

Python Discord Bot

BONUS 3

Working with data

Contents

Exercise 01: Write to csv

SOS	Difficulty:	★
	Objectives:	➢ CSV files are a great way of storing large amounts of data ➢ Figure out a way to write to a csv file called “data.csv” with a bot command
	Skills required:	➢ Knowledge of csv files ➢ CSV modules
	Resources:	Python - Write CSV File
	Search keywords:	CSV module
	Command required:	**$write**

Code snippet:

```
import csv
```

Output example:

Exercise 02: Read from CSV files

SOS	Difficulty:	★ ★
	Objectives:	Use a bot command to read from the csv file ”data.csv” that you just wrote to.
	Skills required:	Knowledge of CSV files
	Resources:	CSV File Reading & Writing (Python)
	Search keywords:	Read from csv file python
	Command required:	**$read**

Code snippet:

```
import csv
```

Output example:

Exercise 03: Analyze a csv

SOS	Difficulty:	★ ★ ★
💡	Objectives:	➢ Download a csv file from the resources below. ➢ The csv file contains the names of many restaurants and the number of votes they received. ➢ Create a bot command that will find the most voted restaurant! ➢ The bot must read and analyze the csv, do not attempt to manually find the answer by reading it! **(Your results will be different from the output example)**
🛠	Skills required:	Data analysation
🌐	Resources:	ratings.csv
🔎	Search keywords:	Analyze csv file python
🔌	Command required:	**$analyze**

Code snippet:

```
import csv
```

Output example:

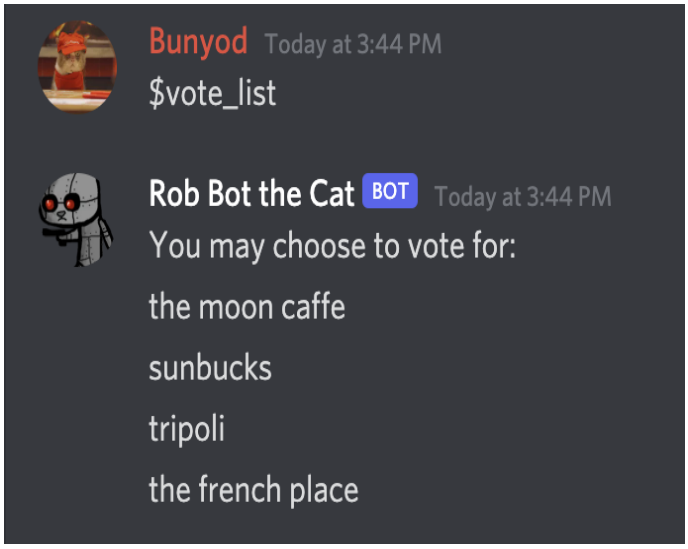
Exercise 04: Register votes

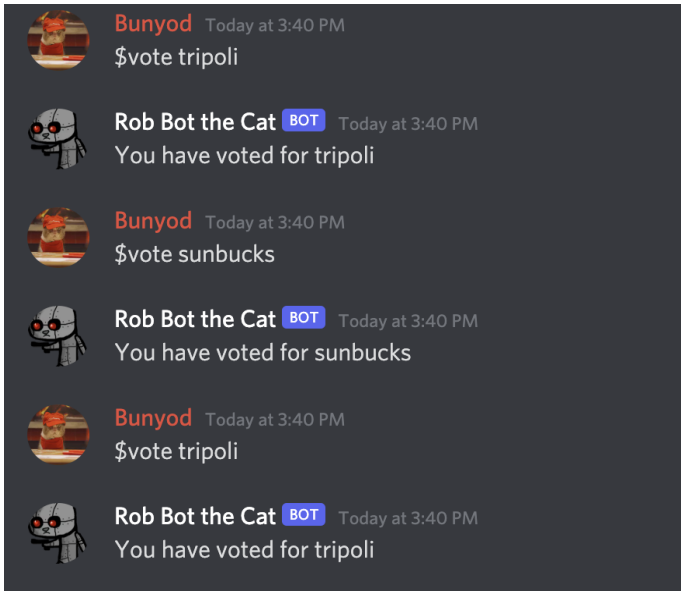
SOS	Difficulty:	★ ★ ★ ★
💡	Objectives:	➢ Create a bot command that will allow users to vote for their favorite eateries! ➢ Create a simple csv file named “vote.csv” with 5 different restaurant names and set their votes to 0. ➢ Create a command called $vote_list that will show the restaurants a user can vote for from the “vote.csv” ➢ Create a command called $vote that will allow users to vote for a restaurant from that list and update the vote value in the “vote.csv”
🛠	Skills required:	Working with csv files
🌐	Resources:	Updating Column Value of CSV - Python
🔍	Search keywords:	Csv file python
🔌	Commands required:	➢ **$vote_list** ➢ **$vote**

Code snippet:

```
import csv
```

Output example:





vote.csv

```
1  the moon caffe, 0
2  sunbucks,1
3  tripoli,2
4  the french place,0
5  burger science,0
```

Note: The votes have updated after the command