PYTHON DICTIONARIES

Deadline: 19 Feb 2024

Solve these questions:

1. Word Counter:

- Write a program that reads a sentence and counts the number of times each word appears. Use a dictionary to store the word counts.

2. Grade Calculator:

- Create a program that asks the user for their scores in different subjects and calculates their overall grade based on a grading scale stored in a dictionary.

3. Shopping List Manager:

- Develop a program that allows users to add, remove, and check off items on a shopping list stored in a dictionary.

4. Movie Rating Tracker:

- Design a program that lets users rate movies on a scale from 1 to 5. Use a dictionary to store movie titles and their average ratings.

5. Temperature Converter:

- Build a program that converts temperatures between Celsius and Fahrenheit using a dictionary to store conversion factors.

6. Phonebook Organizer:

- Create a program that stores names and phone numbers in a dictionary. Offer options to add, search, and update contacts.

7. Restaurant Menu Parser:

- Write a program that reads a restaurant menu file (text or CSV) and stores items, prices, and categories in a dictionary. Allow users to browse by category or search for specific items.

8. Password Guesser:

- Design a simple program that generates random passwords from a set of characters (lowercase, uppercase, numbers, symbols). The password length and character limitations can be stored in a dictionary.

9. Song Organizer:

- Develop a program that stores song titles, artists, and genres in a dictionary. Include functions to sort by different criteria (title, artist, genre) and search for specific songs.

10. Travel Budget Tracker:

- Create a program that allows users to track their travel expenses by category (e.g., transportation, accommodation, food). Use a dictionary to store categories and their corresponding expenses.