PYTHON

Assignment

1. **Create a dictionary with keys as the names of fruits and values as their respective colors. Access and print the color of 'Apple' from the dictionary.**
2. **Given a dictionary with student names as keys and their grades as values, update the grade of 'John' to 'A' and print the updated dictionary.**
3. **Create an empty dictionary and add three key-value pairs: your favorite book, movie, and song. Print the dictionary.**
4. **Create a dictionary with five country-capital pairs. Remove the entry for 'Japan' and print the dictionary.**
5. **Given a dictionary of car brands and their prices, check if 'Tesla' is present as a key. Print an appropriate message b ased on the result.**
6. **Create a dictionary with student names as keys and their marks as values. Iterate over the dictionary and print each student's name along with their marks.**
7. **Given two dictionaries, one containing city names and their populations, and the other containing the same cities and their respective states, merge them into a single dictionary and print the result.**
8. **Create a dictionary with the names of the planets as keys and their number of moons as values. Find and print the length of the dictionary.**
9. **Given a dictionary of words and their meanings, use the get() method to fetch the meaning of a word that may or may not be in the dictionary. Provide a default message if the word is not found.**
10. **Create a dictionary comprehension that generates a dictionary with numbers from 1 to 10 as keys and their squares as values.**

11. **Create a nested dictionary to store the details of three students, with each student having a dictionary containing their 'name', 'age', and 'grade'. Access and print the age of the second student.**
12. **Create a dictionary with country names as keys and their populations as values. Make a copy of this dictionary and modify the population of one country in the copied dictionary. Print both dictionaries to show they are different.**
13. **Given a dictionary of items and their prices, sort the dictionary by price in ascending order and print the sorted dictionary.**
14. **Write a program that reverses the keys and values of a dictionary (e.g., from {1: 'a', 2: 'b'} to {'a': 1, 'b': 2}).**
15. **Create a dictionary with city names as keys and their temperatures as values. Find and print the city with the highest and lowest temperatures.**