

Dictionary Assignment 3

Q1. Write a Python program to create a dictionary named `even_squares` that contains squares of even numbers between 1 and 10 using dictionary comprehension.

Expected Output: {2: 4, 4: 16, 6: 36, 8: 64, 10: 100}

Q2. Write a Python program to create a dictionary using dictionary comprehension from a given dictionary, where the new dictionary only includes items with values greater than 10.

Use the dictionary: {'a': 5, 'b': 12, 'c': 7, 'd': 20}.

Q3. Write a Python program to create a dictionary using dictionary comprehension where the keys are numbers from 1 to 10, and the values are "even" or "odd" depending on the key value.

Q4. Write a Python program to reverse the keys and values of a given dictionary using dictionary comprehension.

Dictionary: {'x': 1, 'y': 2, 'z': 3}

Expected Output: {1: 'x', 2: 'y', 3: 'z'}.

Q5. Write a Python program to create a dictionary using dictionary comprehension that maps each word in a list to its length.

list: ['apple', 'banana', 'cherry', 'date'].

Q6. Write a Python program to create a dictionary using dictionary comprehension where the keys are numbers from 1 to 10, and the values are categorized as 'low' if the key is less than 5, 'medium' if between 5 and 7, and 'high' if greater than 7.

