```
Practice Question for Dictionary: -
Question1: Get keys ['name', 'age'] from the given dictionary student details = {'name':
'kirti', 'age':18, 'location': 'Bengal', 'Country': 'Indian'} and create new dictionary?
Answer1: student_details = {'name': 'kirti', 'age':18, 'location': 'Bengal', 'Country': 'Indian'}
        new dict = {key: student details[key] for key in ['name', 'age']}
        print(new_dict)
Question2: Program to delete set of keys from Dictionary.
Answer2: student details = {'name': 'kirti', 'age':18, 'location': 'Bengal', 'Country': 'Indian'}
       new_dict = {key:student_detials[key] for key in student_details.keys()-['name', 'age']}
       print(new_dict)
Question3: Program to change the name of key in dictionary
Answer3: employee_details = {
               'name': 'bob',
                'age': 70,
                'profession': 'Teacher',
                'city': 'Kolkata'
}
student details['name of employe'] = student details.pop('name')
print(student_details)
```

Question4: Program to change the value of any key in nested dictionary.

```
Answer4: employee_details = {
               'Employee1':{
                               'name': 'bob',
                               'age': 45,
                               'profession': 'writer',
                               'city': 'banaras'
                },
                'Employee2':{
                               'name': 'walter',
                               'age': 40,
                               'profession': 'singer',
                               'city': 'kolkata'
               },
               'Employee3': {
                       'name': 'cathy',
                       'age':25,
                       'profession': 'CEO',
                       'city': 'mumbai'
               }
}
employee details['Employee3']['name'] = 'Banner'
print(employee_details)
```

Question5: Program to sort a dictionary.

```
Answer5: original_dict = {'name': 'bob', 'age':'25', 'place': 'bangalore'}
sorted_dict = {key : value for key, value in sorted(original_dict.items(),key = lambda item: item[1],reverse = True)}
print(original_dict)
print(sorted_dict)
```

Question6: Explain with example the properties of a dictionary.

Question7: What is the difference between del, clear(),pop(key) and popitem. Explain with example.

Question8: What will be the output of the following code?

```
a = {}
a[1]=1
a['1'] = 2
a[1] = a[1]+1
count = 0
for i in a:
    count +=a[i]
print(count)
```

Answer8: 4 (explain why?)

Question9: What will be the output of the given program.

```
numbers = {}
letter = {}
comb = {}
numbers[1]=10
numbers[6]= 16
letter['first']= 'Python'
comb['Numbers'] = numbers
comb['Letters'] = letter
print(comb)
```

Answer9: {'Numbers': {1: 10, 6: 16}, 'Letters': {'first': 'Python'}}

Note: This is an example of how two dictionaries can merge.

Question 10: WAP in python to make a dictionary whose key is only a perfect number and the value is a strong number based on user defined term.