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```
In [1]: #1. Create a dictionary of 5 students with their marks. Print the dictionary.
        student={
            "chaitali":87,
            "Ram":89,
            "Priti":67,
            "Rahul":76,
            "Ashu":96}
        print(student)
       {'chaitali': 87, 'Ram': 89, 'Priti': 67, 'Rahul': 76, 'Ashu': 96}
In [2]: #2. Access the value of a specific key from a dictionary.
        dict1={"Name":"Chaitali", "City":"Beed", "State": "Maharashtra", "Contact":9325111865}
        print(dict1)
        print(dict1["City"])
       {'Name': 'Chaitali', 'City': 'Beed', 'State': 'Maharashtra', 'Contact': 9325111865}
       Beed
In [3]: #3. Add a new key-value pair in the dictionary.
        dict1={}
        dict1.update({"A":21,"B":43,"C":56})
        print(dict1)
       {'A': 21, 'B': 43, 'C': 56}
In [2]: #4. Update the value of an existing key in the dictionary.
        d={"name":"John", "age":30, "city":"Banglore"}
        print("Original dectionary",d)
        d["age"]=28
        print("Updated dictionary",d)
       Original dectionary {'name': 'John', 'age': 30, 'city': 'Banglore'}
       Updated dictionary {'name': 'John', 'age': 28, 'city': 'Banglore'}
In [4]: #5. Remove a key-value pair from the dictionary using pop().
        my dict={'A':21,'B':32,'C':54,'D':12}
        print(my dict)
        my dict.pop('B')
        print(my dict)
```

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{'A': 21, 'B': 32, 'C': 54, 'D': 12}
        {'A': 21, 'C': 54, 'D': 12}
In [6]: #6. Get all keys of a dictionary using .keys() function.
         dicti={'Name':'Chaitali','City':'Banglore','State':'Karnataka'}
         kevs=dicti.kevs()
         print(keys)
        dict keys(['Name', 'City', 'State'])
In [7]: #7. Get all values of a dictionary using .values() function.
         dicti={'Name':'Chaitali','City':'Banglore','State':'Karnataka'}
         values=dicti.values()
         print(values)
        dict values(['Chaitali', 'Banglore', 'Karnataka'])
 In [8]: #8. Get all key-value pairs from a dictionary using .items().
         dicti={'Name':'Chaitali','City':'Banglore','State':'Karnataka'}
         items=dicti.items()
         print(items)
        dict items([('Name', 'Chaitali'), ('City', 'Banglore'), ('State', 'Karnataka')])
In [13]: #9. Check if a given key exists in the dictionary.
         dict1={'A':'Python','B':'Java','C':'HTML','D':'CSS'}
         key="B"
         if dict1.get(key) is not None:
             print(f"The key {key} is exist")
         else:
             print(f"The key {key} is not exist")
        The key B is exist
In [14]: #10. Create a dictionary and print only keys using a loop.
         dict1={'A':'Python','B':'Java','C':'HTML','D':'CSS'}
         keys=dict1.keys()
         print(keys)
         for i in keys:
             print(i)
```

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```
dict_keys(['A', 'B', 'C', 'D'])
        В
        C
        D
In [15]: #11. Create a dictionary and print only values using a loop.
         dict2={'Name':'Chaitali','City':'Banglore','State':'Karnataka'}
         values=dict2.values()
         print(values)
         for i in values:
             print(i)
        dict values(['Chaitali', 'Banglore', 'Karnataka'])
        Chaitali
        Banglore
        Karnataka
In [16]: #12. Merge two dictionaries.
         dict1={'a':12,'b':43,'c':34}
         dict2={'d':56,'e':67,'f':76}
         dict1.update(dict2)
         print(dict1)
        {'a': 12, 'b': 43, 'c': 34, 'd': 56, 'e': 67, 'f': 76}
In [18]: #13. Write a program to find the key with the maximum value in a dictionary.
         dic={'a': 12, 'b': 43, 'c': 34, 'd': 56, 'e': 67, 'f': 76}
         max key=None
         max value=None
         for keys, values in dic.items():
             if max value is None or values > max value:
                 max value=values
                 max key=keys
         print("The maximum value is:", max key)
        The maximum value is: f
In [27]: #14. Create a nested dictionary and access the inner dictionary value.
         details={"emp1":{"Name":"Arjun",
                           "Age":25,
                           "Company": "TCS",
```

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```
"Location": "Banglore",
                          "Salary":43623},
                   "emp2":{"Name":"Riya",
                           "Age":23,
                           "Company": "Infosys",
                          "Location": "Chennai",
                          "Salary":56432},
                   "emp3":{"Name":"Prachi",
                           "Age":26,
                           "Company": "Microsoft",
                          "Location": "Mumbai",
                          "Salary":234544},
                   "emp4":{"Name":"Raghav",
                           "Age":27,
                           "Company": "capgimini",
                          "Location": "Pune",
                          "Salary":35634}}
         details["emp3"]
Out[27]: {'Name': 'Prachi',
           'Age': 26,
           'Company': 'Microsoft',
           'Location': 'Mumbai',
           'Salary': 234544}
In [21]: #15. Create two lists: one with names and one with marks. Use zip() to combine them into a dictionary.
         names={"Rahul","Shreya","Priti","Radha"}
         marks={78,97,58,87}
         dict1=dict(zip(names,marks))
         print(dict1)
        {'Radha': 97, 'Shreya': 58, 'Priti': 78, 'Rahul': 87}
In [24]: #16. Create a dictionary using fromkeys() with a list of keys and the same default value.
         key=['a','b','c','d']
         value=dict.fromkeys(key)
         print(value)
        {'a': None, 'b': None, 'c': None, 'd': None}
```