In [20]:

```
print("DICTIONARY OPERATIONS")
dict1={1:"Python",2:"Java",3:"C++",4:'C'}
print(dict1)
print("Accessing the elements")
print(dict1[3])
print("Changing and Adding elements")
dict1[4]="Ruby"
print(dict1)
dict1[5]="HTML"
print(dict1)
dict2={1:1,2:4,3:9,4:16,5:25}
print(dict2)
print("Removing elements")
print(dict2.pop(3))
print(dict2.popitem())
print(dict2)
print(dict2.clear())
print(dict2)
del dict2
print("Duplicating Dictionary")
mydis=dict1.copy()
print(mydis)
print("List of Dictionary")
print(mydis.items())
allkeys=dict1.keys()
print(allkeys)
print("Updating Dictionary")
dict3={1:"Python3",6:"PHP",}
dict1.update(dict3)
print(dict1)
print("Fromkeys of Dictionary")
seq=("Apple","MAcbook","Android")
mydict=dict1.fromkeys(seq,100)
print(mydict)
```

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DICTIONARY OPERATIONS
{1: 'Python', 2: 'Java', 3: 'C++', 4: 'C'}
Accessing the elements
C++
Changing and Adding elements
{1: 'Python', 2: 'Java', 3: 'C++', 4: 'Ruby'}
{1: 'Python', 2: 'Java', 3: 'C++', 4: 'Ruby', 5: 'HTML'}
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25}
Removing elements
9
(5, 25)
{1: 1, 2: 4, 4: 16}
None
{}
Duplicating Dictionary
{1: 'Python', 2: 'Java', 3: 'C++', 4: 'Ruby', 5: 'HTML'}
List of Dictionary
dict_items([(1, 'Python'), (2, 'Java'), (3, 'C++'), (4, 'Ruby'), (5, 'HTM
L')])
dict_keys([1, 2, 3, 4, 5])
Updating Dictionary
{1: 'Python3', 2: 'Java', 3: 'C++', 4: 'Ruby', 5: 'HTML', 6: 'PHP'}
Fromkeys of Dictionary
{'Apple': 100, 'MAcbook': 100, 'Android': 100}
```

In [ ]: