Q1: Remove empty strings from the list of strings having values Fingertips,"",data,"",Intelligence,"",Solutions.

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In [5]: li=["fingertips","data","intelligence","solutions"]
          for i in li:
              if i =="":
                   li.remove(i)
 In [6]: | li
          ['fingertips', 'data', 'intelligence', 'solutions']
          Result = ['Fingertips', 'Data', 'Intelligence', 'Solutions']
         list(filter(None,li))
 In [8]:
          ['fingertips', 'data', 'intelligence', 'solutions']
Out[8]:
          Q2: Add item 7000 after 6000 in the following Python List List = [10, 20, [300, 400, [5000, 6000], 500], 30, 40]
         list=[10, 20, [300, 400, [5000, 6000], 500], 30, 40]
In [14]:
          list[2][2].append(7000)
          Result = [10, 20, [300, 400, [5000, 6000, 7000], 500], 30, 40]
In [15]:
          list
          [10, 20, [300, 400, [5000, 6000, 7000], 500], 30, 40]
Out[15]:
          Q3: Given a Python list, remove the first occurrence of 20 from the list having values 5, 20, 15, 20, 25, 50, 20
 In [1]: 1=[5, 20, 15, 20, 25, 50, 20]
          b=1.index(20)
 In [2]:
         1.pop(b)
 Out[3]:
```

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Result = [5, 15, 20, 25, 50, 20]
In [24]:
          Q4: Given the list L1 = ['a','b','c'] create a list having the 3 elements which contains the given. list (list of list)
 In [9]: | 11=['a','b','c']
          12=[11]*3
In [11]: 12.append(11)
In [12]: 12
Out[12]: [['a', 'b', 'c'], ['a', 'b', 'c'], ['a', 'b', 'c'], ['a', 'b', 'c']]
          Result = [['a', 'b', 'c'], ['a', 'b', 'c'], ['a', 'b', 'c']]
          Q5: Below are the two lists convert it into the dictionary.
          keys = ['one', 'two', 'three']
          values = [1, 2, 3]
          keys = ['one', 'two', 'three']
In [19]:
          values = [1, 2, 3]
          dic={}
In [25]:
          dic.fromkeys(keys, values)
          {'one': [1, 2, 3], 'two': [1, 2, 3], 'three': [1, 2, 3]}
Out[25]:
          zip(keys, values)
In [26]:
          <zip at 0x1ee062edf00>
Out[26]:
In [27]: dict(zip(keys,values))
Out[27]: {'one': 1, 'two': 2, 'three': 3}
```

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Resul = {'one': 1, 'two': 2, 'three': 3}
          Q6: Merge following two Python dictionaries into one dict1 = {'Ten': 10, 'Twenty': 20, 'Thirty': 30} dict2 = {'Thirty': 30, 'Fourty': 40, 'Fifty':
          50}
In [14]: dict1 = {'Ten': 10, 'Twenty': 20, 'Thirty': 30}
          dict2 = {'Thirty': 30, 'Fourty': 40, 'Fifty': 50}
          dict3 = {**dict1, **dict2}
          dict3
In [15]:
          {'Ten': 10, 'Twenty': 20, 'Thirty': 30, 'Fourty': 40, 'Fifty': 50}
Out[15]:
          dict1.update(dict2)
In [16]:
          dict1
In [18]:
          {'Ten': 10, 'Twenty': 20, 'Thirty': 30, 'Fourty': 40, 'Fifty': 50}
          Resul = {'Ten': 10, 'Twenty': 20, 'Thirty': 30, 'Fourty': 40, 'Fifty': 50}
          Q7: Access the value of key 'history'
          dict1 = { "class":{ "student":{ "name":"Mike","marks":{ "physics":70,"history":80 } } } }
          dict1 = { "class":{ "student":{ "name":"Mike", "marks":{ "physics":70, "history":80 } } } }
In [32]:
In [33]:
          dict1
          {'class': {'student': {'name': 'Mike',
Out[33]:
              'marks': {'physics': 70, 'history': 80}}}
In [35]: print(dict1['class']['student']['marks']['history'])
          80
          Result = 80
          Q8: Rename key city to location in the following dictionary.
```

```
dict1 = { "name": "Akshay", "age":25, "salary": 80000, "city": "Mumbai"}
In [46]: dict1 = { "name": "Akshay", "age":25, "salary": 80000, "city": "Mumbai"}
In [47]:
          dict1
          {'name': 'Akshay', 'age': 25, 'salary': 80000, 'city': 'Mumbai'}
          dict1.pop("city")
In [48]:
           'Mumbai'
Out[48]:
In [53]: dict1["location"]='mumbai'
          dict1["location"]=dict1.pop("city")
          dict1
In [54]:
          {'name': 'Akshay', 'age': 25, 'salary': 80000, 'location': 'mumbai'}
          Result = {'name': 'Akshay', 'age': 25, 'salary': 80000, 'location': 'Mumbai'}
In [ ]:
          Q9: Get the key corresponding to the minimum value from the following dictionary.
          dict1 = { 'Physics': 82, 'Math': 65, 'Chemistry': 75}
          dict1 = { 'Physics': 82, 'Math': 65, 'Chemistry': 75}
In [28]:
          min(dict1,key=dict1.get)
In [31]:
           'Math'
Out[31]:
          Result = Math
          Q10: Given a Python dictionary, Change Akshay's salary to 85000.
          dict1 = { 'emp1': {'name': 'Jay', 'salary': 75000}, 'emp2': {'name': 'Akshay', 'salary': 80000}, 'emp3': {'name': 'Hrishikesh', 'salary': 65000} }
```

```
In [ ]: dict1 = { 'emp1': {'name': 'Jay', 'salary': 75000}, 'emp2': {'name': 'Akshay', 'salary': 80000}, 'emp3': {'name': 'Hris

Result = {'emp1': {'name': 'Jay', 'salary': 75000}, 'emp2': {'name': 'Akshay', 'salary': 80000}, 'emp3': {'name': 'Hrishikesh', 'salary': 85000}}

In [ ]:
In [ ]:
```