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Lab 4

Python program to find the sum of all items in a dictionary

In [1]:
```
mydict={
    "a":5,
    "g":8,
    "f":7,
}
sum(mydict.values())
```

Out[1]: 20

Python program to find the size of a Dictionary

In [2]:
```
mydict={
    "brand":"maruti",
    "model":"swift",
    "year":2020,
}
len(mydict)
```

Out[2]: 3

Python program to Sort Dictionaries by Key or Value

In [6]:
```
mydict={
    "b":3,
    "m":7,
    "y":2,
    "r":8
}
sorted_dict=dict(sorted(mydict.items()))
sorted_dict
```

Out[6]: {'b': 3, 'm': 7, 'r': 8, 'y': 2}

Sort list of dictionaries by values in Python – Using lambda function

In [12]:
```
dict0={
    "brand":"maruti",
    "model":"swift",
    "year":2020,
}
dict1={
    "brand":"suzuki",
    "model":"alto",
    "year":1977,
}
dict2={
    "brand":"bmw",
    "model":"gtr",
    "year":2023,
}
list=[dict0,dict1,dict2]

print(sorted(list, key=lambda i: i['year']))
```

```
[{'brand': 'suzuki', 'model': 'alto', 'year': 1977}, {'brand': 'marut
i', 'model': 'swift', 'year': 2020}, {'brand': 'bmw', 'model': 'gtr',
'year': 2023}]
```

Program to Merge two Dictionaries

In [9]:
```
dict1={
    "J":"maruti",
    "E":"swift",
    "N":2020,
}
dict2={
    "I":"hundai",
    "T":"challenger",
    "H":2021,
}
dict3=dict1|dict2
dict3
```

Out[9]:
```
{'J': 'maruti',
 'E': 'swift',
 'N': 2020,
 'I': 'hundai',
 'T': 'challenger',
 'H': 2021}
```

Program to Find all duplicate characters in string

In [14]:
```
string = "Jenit Harnesha"
duplicates = []

for char in string:
    if string.count(char) > 1 and char not in duplicates:
        duplicates.append(char)

print("Duplicate characters in the string:", duplicates)
```

```
Duplicate characters in the string: ['e', 'n', 'a']
```

Program to Replace String by Kth Dictionary value

In [24]:
```
test_list = ["KIIT", "is", "Best"]
print("The original list : " + str(test_list))
subs_dict = {
    "KIIT" : [5, 6, 7],
    "is" : [7, 4, 2],
}
K = 2
res = [subs_dict[x][K] if x in subs_dict else x for x in test_list]
print("The list after substitution : " + str(res))
```

```
The original list : ['KIIT', 'is', 'Best']
The list after substitution : [7, 2, 'Best']
```

Python | Remove all duplicates words from a given sentence

In [20]:
```
string = "Jenit is great and Jenitsu is also good"
print(' '.join(dict.fromkeys(string.split())))
```

```
Jenit is great and Jenitsu also good
```

Program to Coun the frequencies in a list using dictionary in Python

In [28]:
```
def CountFrequency(my_list):

    count = {}
    for i in my_list:
        count[i] = count.get(i, 0) + 1
    return count

if __name__ == "__main__":
    my_list = [1, 1, 1, 5, 5, 3, 1, 3, 3, 1, 4, 4, 4, 2, 2, 2, 2]
    print(CountFrequency(my_list))
```

```
{1: 5, 5: 2, 3: 3, 4: 3, 2: 4}
```

Program to create grade calculator in Python using dictionary

In [16]:
```
mark1=87
mark2=86
mark3=74
mark4=90
total=mark1+mark2+mark3+mark4
percentage=(total/400)*100
print(percentage)
if (percentage>=90):
    print("Grade A")
elif (percentage<90 and percentage>=80):
    print("Grade B")
else:
    print("Fail")
```

```
84.25
Grade B
```

In [ ]: