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Run Code

In [2]:
```
word ="ACADGILD"
myList = [letter for letter in my_word]
print(myList)
```

```
['A', 'C', 'A', 'D', 'G', 'I', 'L', 'D']
```

In [12]:
```
items =['x','y','z']
itemList=[item*counter for item in items for counter in range(1,5)]
print(itemList)
```

```
['x', 'xx', 'xxx', 'xxxx', 'y', 'yy', 'yyy', 'yyyy', 'z', 'zz', 'zzz', 'zzzz']
```

In [14]:
```
itemListv1=[item*counter for counter in range(1,5) for  item in items]
print(itemListv1)
```

```
['x', 'y', 'z', 'xx', 'yy', 'zz', 'xxx', 'yyy', 'zzz', 'xxxx', 'yyyy', 'zzzz']
```

In [15]:
```
nums = [2,3,4]
numList =[[item+counter] for item in nums for counter in range(0,3)]
print(numList)
```

```
[[2], [3], [4], [3], [4], [5], [4], [5], [6]]
```

In [16]:
```
nums2 = [2,3,4,5]
numListv1 =[[item+counter for item in nums2 ]for counter in range(0,4)]
print(numListv1)
```

```
[[2, 3, 4, 5], [3, 4, 5, 6], [4, 5, 6, 7], [5, 6, 7, 8]]
```

In [17]:
```
nums3 = [(y,x) for x in [1,2,3] for y in [1,2,3] ]
print(nums3)
```

```
[(1, 1), (2, 1), (3, 1), (1, 2), (2, 2), (3, 2), (1, 3), (2, 3), (3, 3)]
```