### Best Example

You should try to Master in

# List Comprehensions in Python











#### 1. Using For loop to Iterate through a String

```
separated_letters = []
for letter in 'python':
    separated_letters.append(letter)
print(separated_letters)

# OUTPUT
['p', 'y', 't', 'h', 'o', 'n']
```

```
separated_letters = [ letter for letter in 'python' ]
print( separated_letters)

#OUTPUT
['p', 'y', 't', 'h', 'o', 'n']
```

#### 2. Using Lambda functions inside List

```
letters = list(map(lambda y: y, 'python'))
print(letters)

#OUTPUT
['p', 'y', 't', 'h', 'o', 'n']
```





#### 3. Using if with List Comprehension

```
even_list = []

for i in range(0,10):
    if i%2 == 0:
        even_list.append(i)
print(even_list)

#OUTPUT
[0, 2, 4, 6, 8]

even_list = [ i for i in range(10) if i % 2 == 0]
print(even_list)

#OUTPUT
[0, 2, 4, 6, 8]
```

#### 4. Nested if with List Comprehension

```
list = ["even" if y%2==0 else "odd" for y in range(5)]
print(list)

# OUTPUT
['even', 'odd', 'even', 'odd', 'even']
```





## 5. Finding Transpose of a Matrix using List Comprehension



05



6. Finding the elements in a list in which elements are ended with the letter 'b' and the length of that element is greater than 2

#### 7. Reverse each String in a Tuple

```
List = [string[::-1] for string in ('python', 'java', 'list')]
print(List)
# OUTPUT
['nohtyp', 'avaj', 'tsil']
```



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