

▼ comprehension

```
l = []
for i in range(1,11):
    l.append(i)
else:
    print(l)

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
l = []
for i in range(1,11):
    if i % 2 == 0:
        l.append(i)
else:
    print(l)

[2, 4, 6, 8, 10]
```

```
l = [i for i in range(1,11)]
print(l)

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
l = [i for i in range(1,11) if i % 2 == 0]
print(l)

[2, 4, 6, 8, 10]
```

```
s = 'developer'
l = []
for i in s:
    l.append(i)
else:
    print(l)

['d', 'e', 'v', 'e', 'l', 'o', 'p', 'e', 'r']
```

```
s = 'developer'
l = [i for i in s]
print(l)

['d', 'e', 'v', 'e', 'l', 'o', 'p', 'e', 'r']
```

```
s = 'developer'
l = []
for i in s:
    if i not in 'aeiouAEIOU':
        l.append(i)
else:
    print(l)

['d', 'v', 'l', 'p', 'r']
```

```
s = 'developer'
l = [i for i in s if i not in 'aeiou']
print(l)

['d', 'v', 'l', 'p', 'r']
```

```
s = 'developer'
s1 = str([i for i in s if i not in 'aeiou'])
print(s1,type(s1))

['d', 'v', 'l', 'p', 'r'] <class 'str'>
```

```
s = 'developer'
s1 = ''
for i in s:
    if i not in 'aeiou':
        s1 = s1+i
else:
    print(s1)

dvlpr
```

```
'''
['odd', 'even', 'odd', 'even', 'odd', 'even', 'odd', 'even', 'odd', 'even']
'''
l = []
for i in range(1,11):
    if i % 2 == 0:
        l.append('even')
    else:
        l.append('odd')
else:
    print(l)

['odd', 'even', 'odd', 'even', 'odd', 'even', 'odd', 'even', 'odd', 'even']
```

```
l=['even' if i % 2 == 0 else 'odd' for i in range(1,11)]
print(l)
```

```
['odd', 'even', 'odd', 'even', 'odd', 'even', 'odd', 'even', 'odd', 'even']
```

```
l = [i for i in range(1,11)]
print(l)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
```

```
'[[1],[2],[3],[4],[5],[6],[7],[8],[9],[10]]'
l = [[i] for i in range(1,11)]
print(l)
```

```
[[1], [2], [3], [4], [5], [6], [7], [8], [9], [10]]
```

```
...
```

```
l = [[0],
      [0,1],
      [0,1,2],
      [0,1,2,3],
      [0,1,2,3,4]]
```

```
...
```

```
l = []
for i in range(1,5):
    temp = []
    for j in range(i):
        temp.append(j)
    else:
        l.append(temp)
        temp = []
```

```
else:
    print(l)
```

```
[[0], [0, 1], [0, 1, 2], [0, 1, 2, 3]]
```

```
l=[[j for j in range(i)] for i in range(1,5)]
print(l)
```

```
[[0], [0, 1], [0, 1, 2], [0, 1, 2, 3]]
```

```
[1,2,2,3,3,3,4,4,4,4,5,5,5,5,5]
```

```
l = []
```

```
for parent in range(1,6):
    for child in range(parent):
        l.append(parent)
```

```

else:
    print(1) 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5]

l=[parent for parent in range(1,6) for child in range(parent)]
print(l)

[1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5]

[0,0,1,0,1,2,0,1,2,3,0,1,2,3,4]
l = []
for parent in range(1,6):
    for child in range(parent):
        l.append(child)
else:
    print(l)

[0, 0, 1, 0, 1, 2, 0, 1, 2, 3, 0, 1, 2, 3, 4]

l=[child for parent in range(1,6) for child in range(parent)]
print(l)

[0, 0, 1, 0, 1, 2, 0, 1, 2, 3, 0, 1, 2, 3, 4]

...
[
[0,0,0],
[0,0,1],
[0,1,0],
[0,1,1],
[1,0,0],
[1,0,1],
[1,1,0],
[1,1,1]
]
...
l = []
for i in range(2):
    for j in range(2):
        for k in range(2):
            l.append([i,j,k])
else:
    print(l)

[[0, 0, 0], [0, 0, 1], [0, 1, 0], [0, 1, 1], [1, 0, 0], [1, 0, 1], [1, 1, 0], [1, 1, 1]]

l=[[i,j,k] for i in range(2) for j in range(2) for k in range(2)]
print(l)

```

```
[[0, 0, 0], [0, 0, 1], [0, 1, 0], [0, 1, 1], [1, 0, 0], [1, 0, 1], [1, 1, 0], [1, 1, 1]]
```

✓ 0s completed at 2:13 PM

