

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

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

```
print(i) for i in range(1,11)
```

File "<ipython-input-3-e5bb9e77e80a>", line 1

```
print(i) for i in range(1,11)
```

^

SyntaxError: invalid syntax

SEARCH STACK OVERFLOW

```
l = ['jagadeesh','sandeep','srinath','lokesh']
```

```
d = {} # j a g
```

```
for name in l:
```

```
    for ch in name:
```

```
        if ch in d:
```

```
            d[ch] = d[ch] + 1
```

```
        else:
```

```
            d[ch] = 1
```

```
for key,value in d.items():
```

```
    print(key,value,sep=' : ')
```

```
j : 1
```

```
a : 4
```

```
g : 1
```

```
d : 2
```

```
e : 5
```

```
s : 4
```

```
h : 3
```

```
n : 2
```

```
p : 1
```

```
r : 1
```

```
i : 1
```

```
t : 1
```

```
l : 1
```

```
o : 1
```

```
k : 1
```

```
num = 9390018938
```

```
while num > 9:
```

```
    total = 0
```

```
    while num != 0:
```

```
    digit = num % 10
    total = total + digit
    num = num // 10
else:
    num = total
else:
    if num == 0:
        print('even')
    elif num == 1:
        print('odd')
    else:
        for i in range(2,num):
            if num % i == 0:
                if num % 2 == 0:
                    print('even')
                else:
                    print('odd')
                break
        else:
            print('prime')
prime
```

```
l = [1,2,[4,5,6],[7,8,9]]
for item in l:
    if isinstance(item,list):
        for i in item:
            l.append(i)
for item in l:
    if isinstance(item,list):
        l.remove(item)
        for i in l:
            if isinstance(i,list):
                l.remove(i)
print(l)
```

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

```
l = [1,2,[4,5,6],[7,8,9],[10,11,12],[13,14,15],[17,18,19]]
for item in l:
    if isinstance(item,list):
        for i in item:
            l.append(i)
```

```
for item in l:
    if isinstance(item,list):
        l.remove(item)
        for i in l:
            if isinstance(i,list):
                l.remove(i)
print(l)

[1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19]
```

```
l = [1,2,[4,5,6],[7,8,9]]
for i in range(len(l)):
    if isinstance(l[i],list):
        n = 0
        for j in l[i]:
            n = n*10 + j
        else:
            l[i] = n
    else:
        print(l)

[1, 2, 456, 789]
```

```
l = [1,2,3,4,5]
l1 = l
print(l, id(l))
print(l1, id(l1))

[1, 2, 3, 4, 5] 140647826316928
[1, 2, 3, 4, 5] 140647826316928
```

```
l = [1,2,3,4,5]
l1 = l.copy() # copy function will create new list memory
print(l, id(l))
print(l1, id(l1))

[1, 2, 3, 4, 5] 140647826430720
[1, 2, 3, 4, 5] 140648027350208
```

```
l = [1,2,3,4,5]
l1 = l
print('before modification')
print(l, id(l))
```

```

print(l1, id(l1))
l[3] = 300
print('after modification')
print(l, id(l))
print(l1, id(l1))
before modification
[1, 2, 3, 4, 5] 140647825717760
[1, 2, 3, 4, 5] 140647825717760
after modification
[1, 2, 3, 300, 5] 140647825717760
[1, 2, 3, 300, 5] 140647825717760

```

```

l = [1,2,3,4,5]
l1 = l.copy()
print('before modification')
print(l, id(l))
print(l1, id(l1))
l[3] = 300
print('after modification')
print(l, id(l))
print(l1, id(l1))

```

```

before modification
[1, 2, 3, 4, 5] 140647826190208
[1, 2, 3, 4, 5] 140648027347392
after modification
[1, 2, 3, 300, 5] 140647826190208
[1, 2, 3, 4, 5] 140648027347392

```

```

l = [1,2,[3,4,5],6,7]
l1 = l
l[2][1] = 300
print(l)
print(l1)

```

```

[1, 2, [3, 300, 5], 6, 7]
[1, 2, [3, 300, 5], 6, 7]

```

```

l = [1,2,[3,4,5],6,7]
l1 = l.copy()
print('before modification')
print('l = ',l,id(l))
print(l[0],id(l[0]))
print(l[1],id(l[1]))
print(l[2],id(l[2]))
print(l[3],id(l[3]))

```

```

print(l[4],id(l[4]))
print('l[2] = ',l[2],id(l[2]))
print(l[2][0],id(l[2][0]))
print(l[2][1],id(l[2][1]))
print(l[2][2],id(l[2][2]))
print('l1 = ',l1,id(l1))
print(l1[0],id(l1[0]))
print(l1[1],id(l1[1]))
print(l1[2],id(l1[2]))
print(l1[3],id(l1[3]))
print(l1[4],id(l1[4]))
print('l1[2] = ',l1[2],id(l1[2]))
print(l1[2][0],id(l1[2][0]))
print(l1[2][1],id(l1[2][1]))
print(l1[2][2],id(l1[2][2]))
l[2][1] = 300
print('after modification')
print('l = ',l,id(l))
print(l[0],id(l[0]))
print(l[1],id(l[1]))
print(l[2],id(l[2]))
print(l[3],id(l[3]))
print(l[4],id(l[4]))
print('l[2] = ',l[2],id(l[2]))
print(l[2][0],id(l[2][0]))
print(l[2][1],id(l[2][1]))
print(l[2][2],id(l[2][2]))
print('l1 = ',l1,id(l1))
print(l1[0],id(l1[0]))
print(l1[1],id(l1[1]))
print(l1[2],id(l1[2]))
print(l1[3],id(l1[3]))
print(l1[4],id(l1[4]))
print('l1[2] = ',l1[2],id(l1[2]))
print(l1[2][0],id(l1[2][0]))
print(l1[2][1],id(l1[2][1]))
print(l1[2][2],id(l1[2][2]))

```

before modification

```

l = [1, 2, [3, 4, 5], 6, 7] 140647825799808
1 9793088
2 9793120
[3, 4, 5] 140647825799680
6 9793248

```

```
7 9793280
1[2] = [3, 4, 5] 140647825799680
3 9793152
4 9793184
5 9793216
l1 = [1, 2, [3, 4, 5], 6, 7] 140647825799488
1 9793088
2 9793120
[3, 4, 5] 140647825799680
6 9793248
7 9793280
l1[2] = [3, 4, 5] 140647825799680
3 9793152
4 9793184
5 9793216
after modification
1 = [1, 2, [3, 300, 5], 6, 7] 140647825799808
1 9793088
2 9793120
[3, 300, 5] 140647825799680
6 9793248
7 9793280
1[2] = [3, 300, 5] 140647825799680
3 9793152
300 140647826139312
5 9793216
l1 = [1, 2, [3, 300, 5], 6, 7] 140647825799488
1 9793088
2 9793120
[3, 300, 5] 140647825799680
6 9793248
7 9793280
l1[2] = [3, 300, 5] 140647825799680
3 9793152
300 140647826139312
5 9793216
```

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