

▼ generators

```
def test():
    for i in range(5):
        return i
```

```
print(test())
```

```
0
```

```
def test():
    for i in range(5):
        yield i
```

```
for value in test():
    print(value,end=' ')
```

```
0 1 2 3 4
```

```
def test():
    for i in range(5):
        return i
```

```
x = test()
print(x)
```

```
0
```

```
def test():
    for i in range(5):
        yield i
```

```
x = test()
print(x)
```

```
<generator object test at 0x7feafb220eb0>
```

```
for j in test():
    print(j)
```

```
0
1
2
3
4
```

```
def test():
    for i in range(5):
        print('test function -',i)
        yield i
```

```
for j in test():
    print('for loop -',j)
```

```
test function - 0
for loop - 0
test function - 1
for loop - 1
test function - 2
for loop - 2
test function - 3
for loop - 3
test function - 4
for loop - 4
```

```
x = test()
for j in x:
    print('for loop -',j)
```

```
test function - 0
for loop - 0
test function - 1
for loop - 1
test function - 2
for loop - 2
test function - 3
for loop - 3
test function - 4
for loop - 4
```

```
def mycode():
    return 10
    return 20
    return 30
    return 40
    return 50
```

```
x = mycode()
print(x)
```

```
10
```

```
def mycode():
    yield 10
    yield 20
    yield 30
    yield 40
    yield 50
```

```
x = mycode()
for i in x:
    print(i,id(x))
```

```
10 140647167922352
20 140647167922352
30 140647167922352
40 140647167922352
50 140647167922352
```

```
def test():
    l = []
    for i in range(5):
        l.append(i)
    else:
        return l
```

```
x = test()
print(x)
```

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

```
def getphotos():
    # connect database
    # load images ( 10 millions) 10000 - 1 tb
    # store them in a list
    # return list
    pass
```

```
def getphotos():
    # connect database
    # load only one image for each iteration
```

```
# yield image
yield 10

for img in getphotos():
    print(img)

10

def getchars(s):
    for ch in s:
        print('getchars - ',ch)
        yield ch

for i in getchars('hyderabad'):
    print('for loop - ',i)

getchars - h
for loop - h
getchars - y
for loop - y
getchars - d
for loop - d
getchars - e
for loop - e
getchars - r
for loop - r
getchars - a
for loop - a
getchars - b
for loop - b
getchars - a
for loop - a
getchars - d
for loop - d
```

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✓ 0s completed at 2:02 PM

