- lambda function

```
def wish():
  print('good afternoon')
f = lambda : print('good afternoon')
wish()
    good afternoon
f()
    good afternoon
def test():
  return 10
print(test())
    10
f = lambda : 10
print(f())
    10
def mytest(i):
  return i
print(mytest(100))
    100
f = lambda i: i
print(f(100))
    100
```

```
def square(x):
  return x**2
print(square(5))
    25
f = lambda x: x**2
print(f(5))
   25
def getlist(s):
  1 = []
  for i in s:
    1.append(i)
  else:
    return 1
print(getlist('python'))
    ['p', 'y', 't', 'h', 'o', 'n']
f = lambda s: [i for i in s]
print(f('python'))
    ['p', 'y', 't', 'h', 'o', 'n']
def alternatechar(s):
  1 = []
  for i in range(len(s)):
    if i\%2 == 0:
      1.append(s[i].upper())
    else:
      1.append(s[i].lower())
  else:
    return 1
print(alternatechar('python'))
    ['P', 'y', 'T', 'h', 'O', 'n']
```

```
f=lambda s:[s[i].upper() if i%2==0 else s[i].lower() for i in
print(f('python'))
    ['P', 'y', 'T', 'h', '0', 'n']
1 1 1
Γ
  [0],
  [0,1],
  [0,1,2],
  [0,1,2,3],
  [0,1,2,3,4]
. . .
def createlist(x):
  1 = []
  for i in range(x):
    temp = [] # nested list creation
    for j in range(i+1):
      temp.append(j)
    else:
      1.append(temp)
  else:
    return 1
print(createlist(5))
    [[0], [0, 1], [0, 1, 2], [0, 1, 2, 3], [0, 1, 2, 3, 4]]
f=lambda x:[[j for j in range(i+1)] for i in range(x)]
print(f(5))
    [[0], [0, 1], [0, 1, 2], [0, 1, 2, 3], [0, 1, 2, 3, 4]]
1 1 1
Γ
  ['p'],
  ['p','y'],
  ['p','y','t'],
  ['p','y','t','h'],
  ['p','y','t','h','o'],
```

```
['p','y','t','h','o','n']
1 1 1
def newlist(s):
  1 = []
  for i in range(len(s)):
    temp = []
    for j in range(i+1):
      temp.append(s[j])
    else:
      1.append(temp)
  else:
    return 1
print(newlist('python'))
    [['p'], ['p', 'y'], ['p', 'y', 't'], ['p', 'y', 't', 'h'], ['p', 'y', 't', 'h', 'o'],
f=lambda s:[[s[j] for j in range(i+1)] for i in range(len(s))]
print(f('python'))
    [['p'], ['p', 'y'], ['p', 'y', 't'], ['p', 'y', 't', 'h'], ['p', 'y', 't', 'h', 'o'],
```

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