

A lambda function is a small anonymous function.

lambda function can take any number of arguments, but only have one expression.

Lambda syntax

lambda arguments : expression

E.x

data = lambda a, b : a + b

result = data(30, 20)

print(result)

↳ 50

Conditional class in lambda

result = lambda num : num % 2 == 0

~~Print~~ Data = (result(17))

print(Data)

```
If raddata == True:
    print ('The number is even')
```

```
else:
```

```
    print ('The number is odd').
```

↳

Output False

The number is odd

```
Use def - function
```

```
def myfun(n):
```

```
    return lambda a : a * n
```

```
val = myfun(3)
```

```
print (val(10))
```

Output ↳ 30.

August 2017

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September 2017

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

October 2017

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

map function

map() function returns a result after applying the given function to each item of a given iterable.

Syntax :

map(fun, iter)

E.x get the square values

```
def square(n):  
    print('no = {}'.format(n))  
    return (n**2)
```

```
for i in map(square, [1, 2, 3, 4, 5]):
```

```
    print(i)
```

↳

Output

n=1

1

n=2

4

n=3

9

n=4

16

n=5

25



Get Started

Day15_Practice.py X



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```
1  ###LAMBDA FUNTIONS
2  from ast import Lambda
3  from types import LambdaType
4
5
6  data=lambda a,b:a+b
7  result=data(30,20)
8  print('Lambda:',result)
9
10 value=lambda num:num%2==0
11 result=(value(17))
12 print(result)
13 if (result==True):
14     print('number is even')
15 else:
16     print('number is odd')
17
18 x=lambda a,b,c:a*b*c
19 val=x(10,2,3)
20 print(val)
21
22 def myfun(n):
23     return lambda a:a*n
```

FILE EXPLORER

- Day15_Practice.py

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
False
number is odd
60
30
1
4
9
16
```



Code

Python





Get Started

Day15_Practice.py X



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```
23     return lambda a:a*n
24 val=myfun(3)
25 print(val(10))
26 ### MAP FUNTIONS
27
28 for i in map(lambda a:a**2,range(1,5)):
29     print(i)
30
31
32
33 def square(n):
34     print('n={}'.format (n))
35     return(n**2)
36
37 for i in map(square,[1,2,3,4,5]):
38     print(i)
39
40
41 def square(n):
42     print('n={}'.format (n))
43     return(n**2)
44 a=list (map(square,[2,4,6,8]))
45 print(a)
```

Day15_Practice.py

```
23     return lambda a:a*n
24 val=myfun(3)
25 print(val(10))
26 ### MAP FUNTIONS
27
28 for i in map(lambda a:a**2,range(1,5)):
29     print(i)
30
31
32
33 def square(n):
34     print('n={}'.format (n))
35     return(n**2)
36
37 for i in map(square,[1,2,3,4,5]):
38     print(i)
39
40
41 def square(n):
42     print('n={}'.format (n))
43     return(n**2)
44 a=list (map(square,[2,4,6,8]))
45 print(a)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
n=5
25
n=2
n=4
n=6
n=8
[4, 16, 36, 64]
```



Code

Python