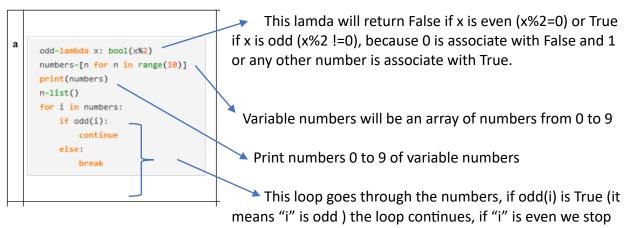
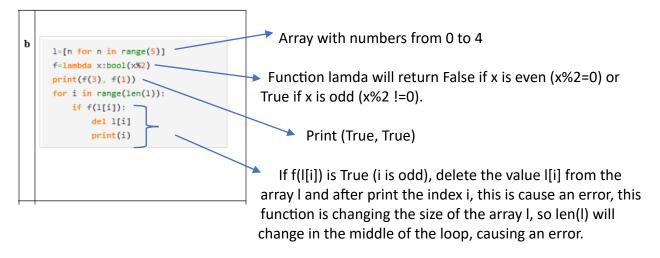
## Assignment 4 – Script Language (Python) Student: Bruno Lopes 2234087

## Question1

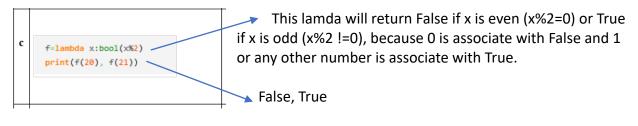


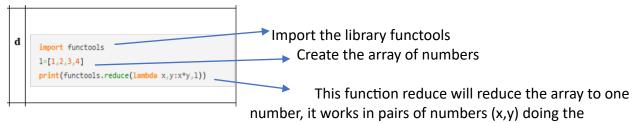
the loop, but there is no printing in the loop.

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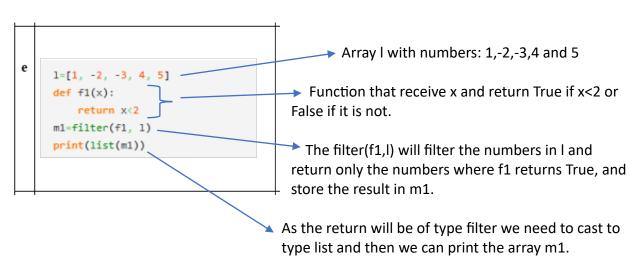


operation indicated (x\*y) in the array I, always the first number with the next. So the operation will follow as:

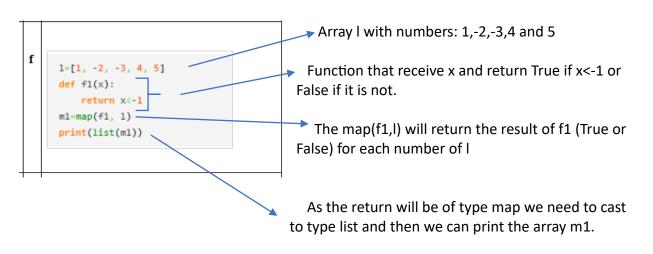
1\*2=2, 2\*3=6, 6\*4=24,

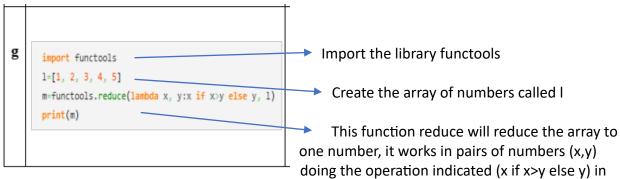
The return will be 24.

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the array I, always the first number with the next. So the operation will follow as: 1>2? No, return 2, 2>3? No, return 3, 3>4? No, return 4, 4>5? No, return 5.

The return will be 5.

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```
h m=reduce(lambda x: x-3 in range(4, 10))
print(list(m))
```

This example will not work because to use reduce we need import functools first and the function reduce needs 2 arguments and this example only use x.

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## Question2

```
the one line equivalent could be:

def f1(x):
    return x<0
m1=filter(f1, 1)
print(list(m1))</pre>
the one line equivalent could be:

print( list( filter(lambda x: x<0, l) ) )
```

------

## Question3

```
def sf(a):
    return a%3!=0 and a%5!=0
m=filter(sf, range(1, 31))
print(list(m))
```

The output will be all numbers between 1 and 30 that are not multiple of 3 neither multiple of 5, so the output will be:

[1, 2, 4, 7, 8, 11, 13, 14, 16, 17, 19, 22, 23, 26, 28, 29]

References: Python Documentation - https://docs.python.org/3/library