

1.Create a lambda function that multiplies argument x with argument y

In [1]:

```
a=lambda x,y:x*y
```

In [2]:

```
print(a(5,2))
```

10

In [3]:

```
print(a(10,10))
```

100

1. Write a Python program to create Fibonacci series to n using Lambda

In [4]:

```
from functools import reduce  
  
fib = lambda n: reduce(lambda x, _: x+[x[-1]+x[-2]],  
                       range(n-2), [0, 1])
```

```
print(fib(10))
```

[0, 1, 1, 2, 3, 5, 8, 13, 21, 34]

3.Write a Python program that multiply each number of given list with a given number

In [7]:

```
list1 = [2,4,6,8,10,12,14]  
Multiply = 2  
x=list(map(lambda number:number*Multiply,list1))  
print("Result:")  
print(' '.join(map(str,x)))
```

Result:

4 8 12 16 20 24 28

4.Write a Python program to find numbers divisible by 9 from a list of numbers¶

In [12]:

```
list2=[2,4,5,6,7,8,9,21,12,14,15,27,36,81]  
list3=list(filter(lambda j:j%9==0,list2))  
print(' '.join(map(str,list3)))
```

9 27 36 81

5.Write a Python program to count the even numbers in a given list of integers¶

In [17]:

```
list4=[2,4,6,5,7,8,9,10]  
list5=list(filter(lambda x:x%2==0,list4))  
print(' '.join(map(str,list5)))  
print(len(list5))
```

2 4 6 8 10

5

