• Day 16 - Lambda

Create a lambda function that multiplies argument x with argument y

```
In [6]:
```

```
x=int(input("Enter num1:"))
y=int(input("Enter num2:"))
z=lambda x,y:x*y
print(z(x,y))

Enter num1:6
Enter num2:8
48
```

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

```
In [7]:
```

```
In [9]:
```

```
print(fib_series(8))
```

```
[0, 1, 1, 2, 3, 5, 8, 13]
```

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

```
In [10]:
```

```
nums = [2, 4, 6, 9 , 11]
n = 2
print("Original list: ", nums)
print("Given number: ", n)
filtered_numbers=list(map(lambda number:number*n,nums))
print("Result:")
print(' '.join(map(str,filtered_numbers)))
```

```
Original list: [2, 4, 6, 9, 11]
Given number: 2
Result:
4 8 12 18 22
```

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

```
In [12]:

# Take a list of numbers
my_list = [18, 65, 54, 39, 102, 36, 221,]

# use anonymous function to filter
result = list(filter(lambda x: (x % 9 == 0), my_list))

# display the result
print("Numbers divisible by 9 are", result)
```

Numbers divisible by 9 are [18, 54, 36]

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

```
In [13]:

# list of numbers
list1 = [10, 21, 4, 45, 66, 93, 11]
even_nos = list(filter(lambda x: (x % 2 == 0), list1))

print("Even numbers in the list: ", even_nos)
print(len(even_nos))

Even numbers in the list: [10, 4, 66]
3

In []:
```