**33.How to use map,filter concepts in python?**

**Objective:**

* To implement concept of map, filter in python3.

**Process:**

* **Map()**

map() is a function which takes two arguments.

Applies a function to all the items in an input\_list.

It used to number of coding lines in the program.

* **Filter()**

Filter function is used to filter out all the elements of a sequence.

The filter resembles a for loop but it is a builtin function and faster.

**Input:**

* Numeric list.

**Output:**

* Square of the numeric list.
* Numbers between a range.

**Source code:**

#map function

num\_list = [1, 2, 3, 4, 5]

square = list(map(lambda x: x\*\*2, num\_list))

print("Square of the list is:\n")

print(square)

print("\n")

#filter function

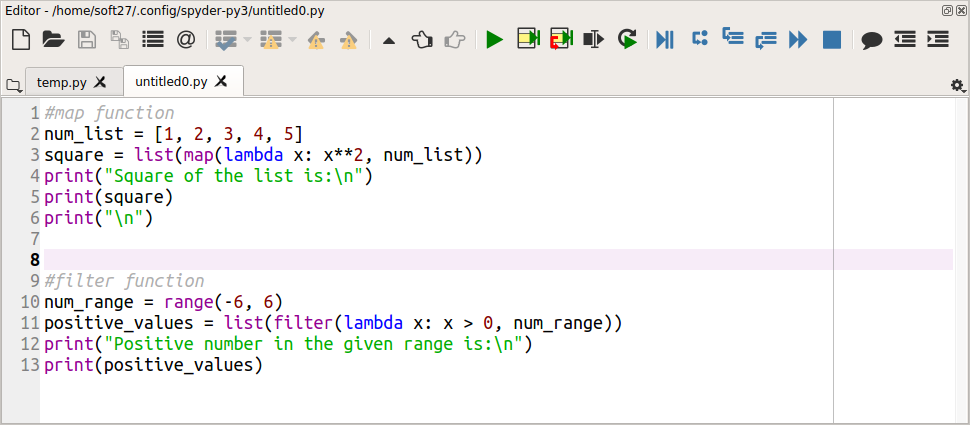
num\_range = range(-6, 6)

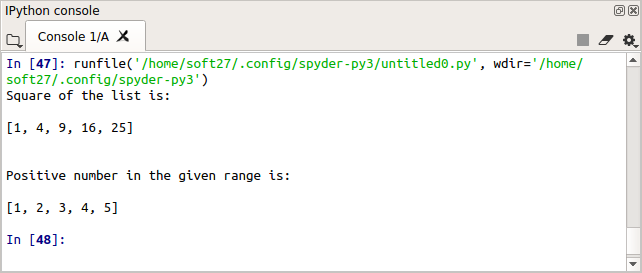
positive\_values = list(filter(lambda x: x > 0, num\_range))

print("Positive number in the given range is:\n")

print(positive\_values)

**Screen shot:**

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