**11.What is anonymous function or lambda function in python?**

**Objective:**

* To see what is lambda function, syntax of lambda function in python3.

**Process:**

* **Anonymous or lambda function.**

Lambda functions are small functions usually not more than a line.

Its also called as one line function.

Lambda function can have any number of arguments but only one expression.

It defined with keyword **lambda.**

Its mostly used for mathematical expression

* **Syntax:**

lambda arguments:expressions

Eg.double=lambda x:x\*2

**Input:**

* Integer value

**Output:**

* Double of given integer value for single and list of integers.

**Source code:**

#lambda function to double the input

d = lambda x: x \* 2

print("------First output------\n")

print(d(6))

#lambdat functions with mapping

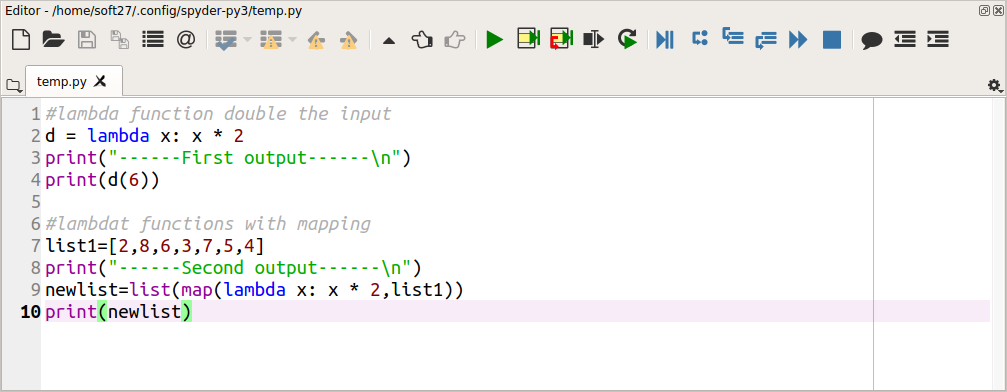
list1=[2,8,6,3,7,5,4]

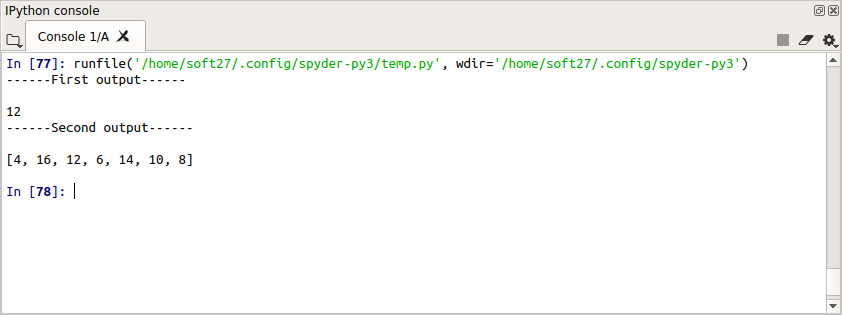
print("------Second output------\n")

newlist=list(map(lambda x: x \* 2,list1))

print(newlist)

**Screen shots:**

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