Lambda Method

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Lambda Functions in Python

Lambda functions are small anonymous functions defined using the **lambda** keyword. They can have any number of arguments but only one expression. They are commonly used for short operations or as arguments to higher-order functions.

```
# Greeting function using input name

greet = lambda name : f'Welcome {name} ,nice to meet you :)'

print(greet("Hondu"))
```

✓ 0.0s

```
Welcome Hondu ,nice to meet you :)
```

```
# Normal Function

def add(a,b):
    return a+b

answer_normal = add(5,6)

print(f'Normal function returned {answer_normal}')

#Lambda Function

addition = lambda a,b:a+b

answer_Lambda = addition(5,6)

print(f'Lambda function returned {answer_Lambda}')
```

✓ 0.0s

```
Normal function returned 11
Lambda function returned 11
```

```
capitalize_letters = lambda letter : letter.capitalize()

name = 'tanmay'

print(capitalize_letters(name))
```

✓ 0.0s

```
Tanmay
```

```
# function for area of rectangle

area_of_rectangle = lambda side_1,side_2 : side_1*side_2

print(f'Area of rectangle is {area_of_rectangle(5,6)} cm.')
```

✓ 0.0s

```
Area of rectangle is 30 cm.
```

```
# map() with lambda()

capital_first_letter = lambda letter : letter.capitalize()

names = ['first','second','third','fourth','fifth','sixth']

print(list(map(capital_first_letter,names)))
```

✓ 0.0s

```
['First', 'Second', 'Third', 'Fourth', 'Fifth', 'Sixth']
```

```
# map() with lambda() for square of no
numbers = []
for i in range(0,20,4):numbers.append(i)

sq_no = lambda no : no**2
print(f'The number list is :{numbers}')
print(f'The squared list is :{list(map(sq_no,numbers))}')
```

✓ 0.0s

```
The number list is :[0, 4, 8, 12, 16]
The squared list is :[0, 16, 64, 144, 256]
```