PYTHON

From Simple to Complex
With
Examples

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NOTE!!!

In these notes Screenshots of practice examples and coding are added. The code files are also available in code folder that contain .ipynb files that are created on Jupyter notebook.

Chapter15
Lambda Expression

A lambda expression is a small anonymous function.

A lambda function have only one expression and can take any number of arguments..

Syntax: lambda *arguments* : *expression*

e.g. lambda function that return sum of first five numbers

```
add=lambda a,b,c,d,e:a+b+c+d+e
print(add(1,2,3,4,5))
print(add)
```

```
15
<function <lambda> at 0x00000267A5F357E0>
```

- **TODO Task**

define a function that take a number as parameter and check if number is even or odd through simple and lambda method

```
#through simple method
def even_odd1(num):
    return num%2==0
print(even_odd1(5))
#through lambda expression
even_odd2=lambda num:num%2==0
print(even_odd2(6))
```

```
False
True
```

- **TODO Task**

Define a function that take a string and print last character of string.

```
#through simple method
def last_char(string):
    return string[-1]
print(last_char('Ayesha'))
#through lambda expression
last_char2=lambda s:s[-1]
print(last_char2('Noreen'))
```

```
a
n
```

- **If/else statement**

Define a lambda expression that checks a number is greater than 5 or less than 5.

```
check_greater_less=lambda num:"Greater" if num>5 else "less"
print(check_greater_less(6))
```

```
Greater
```