B. lambda_function_examples

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0.0.1 Python Lambda Function examples

By Karthik Nair

A lambda function in Python is a small anonymous function defined using the lambda keyword. It can have any number of arguments but only one expression. Lambda functions are often used when you need a simple function for a short period and don't want to go through the process of defining a formal function using the def keyword.

Calculating the square of a number

```
Using normal function
```

```
[8]: def calc_square(x):
    return x*x

print(calc_square(5))
```

25

Using lambda function

```
[9]: square = lambda x : x*x
print(square(5))
```

25

Adding two numbers

Using normal function

```
[10]: def add(x, y):
    return x+y
print(add(3, 5))
```

8

Using lambda

```
[11]: add = lambda x, y: x+y
print(add(3, 5))
```

Find if a number is prime or not

Using normal function

```
[12]: def is_prime(x):
    if x < 2:
        return False
    for i in range(2, x//2+1):
        if x % i == 0:
            return False
    return True
    print(is_prime(5))
    print(is_prime(41))
    print(is_prime(42))</pre>
```

True

True

False

Using lambda function

True

True

False