## Define the 10 functions with the def and the lambda function in python?

It seems there might be a slight confusion in your question. It's not clear what you mean by "the lambda function." However, I assume you meant "lambda function." I'll provide you with examples of defining functions using `def` and `lambda` in Python.

# Using `def` to Define Functions:

```
1. Addition Function:
 ```python
 def add(x, y):
   return x + y
2. Subtraction Function:
 ```python
 def subtract(x, y):
   return x - y
3. Multiplication Function:
 ```python
 def multiply(x, y):
   return x * y
4. Division Function:
 ```python
 def divide(x, y):
   return x / y
5. Square Function:
 ```python
 def square(x):
   return x ** 2
6. Cube Function:
 "python
 def cube(x):
   return x ** 3
7. Factorial Function:
 ```python
 def factorial(n):
   if n == 0 or n == 1:
```

return 1

```
else:
return n * factorial(n - 1)
```

### Using 'lambda' to Define Functions:

### 8. Power of Two using Lambda:

```
```python
power_of_two = lambda x: x ** 2
```

### 9. Double using Lambda:

```
```python
double = lambda x: x * 2
```

#### 10. Check Even using Lambda:

```
```python
is_even = lambda x: x % 2 == 0
```

#### Def statement:

- The def statement is used to define a regular (named) function.
- It allows you to create a block of reusable code with a specific name.
- Functions defined using def can have multiple expressions/statements, a docstring, and can contain complex logic.

#### lambda function:

- The lambda keyword is used to create anonymous functions, also known as lambda functions.
- Lambda functions are often used for short-term operations where a full def statement is not necessary.
- They can take any number of arguments but can only have one expression.
- Lambda functions are commonly used in functional programming constructs like map, filter, and reduce.