

## 9. Demonstrate implementation of the Anonymous Function Lambda.

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### 1.# define Python user-defined exceptions

```
class Error(Exception):
    """Base class for other exceptions"""
    pass
class ValueTooSmallError(Error):
    """Raised when the input value is too small"""
    # Python code to illustrate cube of a number
    # showing difference between def() and lambda().
    def cube(y):
        return y*y*y
    lambda_cube = lambda y: y*y*y
    # using the normally
    # defined function
    print(cube(5))
    # using the lambda function
    print(lambda_cube(5))
```

**output:**

125

125

### #2. Python Lambda Function with List Comprehension

```
tables = [lambda x=x: x*10 for x in range(1, 11)]
```

for table in tables:

```
    print(table())
```

output:

10

20

30

40

50

60

70

80

90

100

### 3.#Python Lambda Function with if-else

# Example of lambda function using if-else

```
Max = lambda a, b : a if(a > b) else b
```

```
    print(Max(1, 2))
```

**output:**

2