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Python Functions

- Python Functions



Functions

A function is a block of organized, reusable code that is used to perform a single, related action. Functions provide better modularity for your application and a high degree of code reusing.

- Function blocks begin with the keyword `def` followed by the function name and parentheses `()`.
- Any input parameters or arguments should be placed within these parentheses. You can also define parameters inside these parentheses.
- The first statement of a function can be an optional statement - the documentation string of the function or docstring.
- The code block within every function starts with a colon `:` and is indented.
- The statement `return [expression]` exits a function, optionally passing back an expression to the caller. A return statement with no arguments is the same as `return None`.

Functions

```
def name_of_function( parameters ):  
    """This is a docstring"""  
    # code block
```


Functions

If you do not know how many arguments will be passed into your function, add a * before the parameter name in the function definition.

```
def name_of_function( *arg ):  
    """This is a docstring"""  
    # code block
```

```
def function( *args_list ):  
    for l in args_list:  
        print(i)
```

```
# function calling  
function('Python', 'Functions', 'tutorial')
```

```
def my_function(**kid):  
    #statements
```

```
my_function(fname = "Tobias", lname = "Refsnes")
```

```
def my_function(**kid):  
    print("His last name is " + kid["lname"])
```

```
my_function(fname = "Tobias", lname = "Refsnes")
```

Lambda Functions

Lambda Functions in Python are anonymous functions, implying they don't have a name. The `def` keyword is needed to create a typical function in Python, as we already know. We can also use the `lambda` keyword in Python to define an unnamed function.

```
lambda arguments : expression
```

```
x = lambda a : a + 10  
print(x(5))
```

Thanks for Reading



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Phone: +91-9716344624 | +91-7838545389 | Email: info@rsuniverse.com | rsuniverse8@gmail.com