Cheat Sheet

Function Arguments

A function can have more than one argument.

def function_name(arg_1, arg_2):

Reusable

Block of Code

Keyword Arguments

Passing values by their names.

Code

PYTHON

```
def greet(arg_1, arg_2):
    print(arg_1 + " " + arg_2)

greeting = input()
name = input()
greet(arg_1=greeting,arg_2=name)
```

Input

Good Morning

Ram

Output

Good Morning Ram

Possible Mistakes - Keyword Arguments

Code

PYTHON

```
def greet(arg_1, arg_2):
    print(arg_1 + " " + arg_2)

greeting = input()
name = input()
greet(arg_2=name)
```

Input

Good Morning Ram

Output

```
TypeError: greet() missing 1 required positional argument: 'arg 1'
```

Positional Arguments

Values can be passed without using argument names.

- These values get assigned according to their position.
- Order of the arguments matters here.

Code

PYTHON

```
1 def greet(arg_1, arg_2):
2     print(arg_1 + " " + arg_2)
```

```
4 greeting = input()
5 name = input()
6 greet(greeting,name)
```

Input

Good Morning

Ram

Output

Good Morning Ram

Possible Mistakes - Positional Arguments

Mistake - 1

Code

PYTHON

```
def greet(arg_1, arg_2):
  print(arg_1 + " " + arg_2)

greeting = input()
name = input()
greet(greeting)
```

Input

Good Morning

Ram

Output

```
TypeError: greet() missing 1 required positional argument: 'arg_2'
```

Mistake - 2

Code

PYTHON

```
def greet(arg_1, arg_2):
    print(arg_1 + " " + arg_2)

greeting = input()
    name = input()
    greet()
```

Input

Good Morning

Ram

Output

TypeError: greet() missing 2 required positional arguments

Default Values

Example - 1

Code

PYTHON

```
1 def greet(arg_1="Hi", arg_2="Ram"):
2    print(arg_1 + " " + arg_2)
3
4    greeting = input()
5    name = input()
```

```
6 greet()
```

Input

Hello Teja

Output

Hi Ram

Example - 2

Code

PYTHON

```
def greet(arg_1="Hi", arg_2="Ram"):
    print(arg_1 + " " + arg_2)

greeting = input()
name = input()
greet(greeting)
```

Input

Hello Teja

Output

Hello Ram

Example - 3

Code

PYTHON

```
def greet(arg_1="Hi", arg_2="Ram"):
    print(arg_1 + " " + arg_2)

greeting = input()
name = input()
greet(name)
```

Input

Hello

Teja

Output

Teja Ram

Example - 4

Code

PYTHON

```
def greet(arg_1="Hi", arg_2="Ram"):
    print(arg_1 + " " + arg_2)

greeting = input()
name = input()
greet(arg_2=name)
```

Input

Hello

Teja

Output

Hi Teja

Example - 5

Code

PYTHON

```
def greet(arg_1="Hi", arg_2):
    print(arg_1 + " " + arg_2)

greeting = input()
name = input()
greet(arg_2=name)
```

Input

Hello

Teja

Output

SyntaxError:non-default argument follows default argument

Non-default arguments cannot follow default arguments.

Example - 6

Code

PYTHON

```
1 def greet(arg 2. arg 1="Hi"):
```

```
Revolutionizing the Job Market | NxtWave
print(arg_1 + " " + arg_2)
4 greeting = input()
5 name = input()
6 greet(arg_2=name)
```

Input

Hello Teja

Output

Hi Teja

Passing Immutable Objects

Code

PYTHON

```
1 def increment(a):
2 a += 1
4 a = int(input())
5 increment(a)
6 print(a)
```

Input

5

Output

5

Even though variable names are same, they are referring to two different objects. Changing the value of the variable inside the function will not affect the variable outside.

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