

PYTHON – KEYWORD ARGUMENT

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PYTHON – KEYWORD ARGUMENT

1. Keyword arguments

- ✓ Keyword arguments are arguments that recognize the parameters by the name of the parameters.
- ✓ We can use an identifier (name of the variable) to provide values to the function parameters.
- ✓ While providing the value, name of the parameter should be match otherwise we will below error.
 - **TypeError: got an unexpected keyword argument 'variable name'**
- ✓ This concept we can apply one,
 - Functions
 - Constructor
 - Instance method

Program Name Function with keyword arguments concept
demo1.py

```
def shopping(prod):  
    print("Product is :", prod)  
  
shopping(prod = "iPhone 14 plus")
```

output
Product is: iPhone 14 plus

Program Name Function with keyword arguments concept: **Error**
demo2.py

```
def shopping(prod):  
    print("Product is :", prod)  
  
shopping(a = "iPhone 14 plus")
```

output
TypeError: shopping() got an **unexpected keyword argument 'a'**

Make a note

- ✓ Here keyword argument name is **prod**, but we are using different name, though we will get Error.

Program Name Constructor with keyword arguments concept
demo3.py

```
class Amazon:
    def __init__(self, prod):
        self.prod = prod
        print("Product is:", self.prod)
```

```
amz = Amazon(prod = "iPhone 14 plus")
```

output
Product is: iPhone 14 plus

Program Name Constructor with keyword arguments concept: **Error**
demo4.py

```
class Amazon:
    def __init__(self, prod):
        self.prod = prod
        print("Product is:", self.prod)
```

```
amz = Amazon(a = "iPhone 14 plus")
```

output
TypeError: __init__() got an unexpected keyword argument 'a'

Make a note

- ✓ Here keyword argument name is **prod**, but we are using different name, though we will get Error.

Program Name Instance method with keyword arguments concept
demo5.py

```
class Amazon:
    def shopping(self, prod):
        print("Product is:", prod)

amz = Amazon()
amz.shopping(prod = "iPhone 14 plus")
```

output
Product is: iPhone 14 plus

Program Name Instance method with keyword arguments concept: **Error**
demo6.py

```
class Amazon:
    def shopping(self, prod):
        print("Product is:", prod)

amz = Amazon()
amz.shopping(a = "iPhone 14 plus")
```

output
TypeError: shopping() got an **unexpected keyword argument 'a'**

Make a note

- ✓ Here keyword argument name is **prod**, but we are using different name, though we will get Error.

Program Name Series constructor with keyword arguments concept
demo7.py

```
import pandas as pd

m = [36, 67, 88, 99]

s = pd.Series(m, name = "Daniel marks")

print(s)
```

output

```
0    36
1    67
2    88
3    99
Name: Daniel marks, dtype: int64
```

Program Name Series constructor with keyword arguments concept: **Error**
demo8.py

```
import pandas as pd

m = [36, 67, 88, 99]

s = pd.Series(m, a = "Daniel marks")

print(s)
```

output

TypeError: __init__() got an **unexpected keyword argument 'a'**

Make a note

- ✓ **name** is predefined keyword argument in **Series** class constructor.
- ✓ So, we should use **name** keyword argument only.
- ✓ Reason behind the error is, Here keyword argument name is **name**, but we are using different name, though we will get Error.