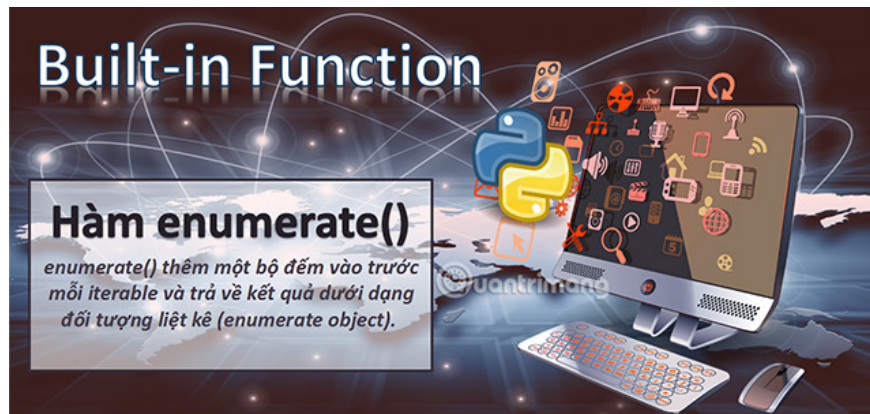


# Enumerate () function in Python

In Python, the `enumerate ()` function adds a counter before each iterable and returns the result as an enumerate object. The article will elaborate on the syntax, parameters and usage of the function. Invites you to read the track.

In Python, **the `enumerate ()` function** adds a counter before each iterable and returns the result as an enumerate object. The article will elaborate on the syntax, parameters and usage of the function. Invites you to read the track.



## Enumerate () function syntax in Python

```
enumerate(iterable, start=0)
```

### Parameters of the `enumerate ()` function

1. *iterable*: string, list, tuple, iterator or any object that supports iteration.
2. *start*: `enumerate ()` starts the counter from this number. If the start parameter is omitted, 0 will be the default value assigned.

## Value returned from `enumerate ()`

The `enumerate ()` function adds a counter before each iterable and returns the result as a listed object. These enumerate objects can then be used directly in loops or converted into a list, a tuple by `list ()` and `tuple ()` methods .

### Example 1: The `enumerate ()` function works in Python

```

cuahang = ['banhmi', 'sua', 'keo']
enumerateCuahang = enumerate(cuahang)

print(type(enumerateCuahang))

# chuyển ??i thành m?t danh sách
# vi?t b?i TipsMake.com
print(list(enumerateCuahang))

# b? ??m ch? ??nh s? b?t ??u
# vi?t b?i TipsMake.com
enumerateCuahang = enumerate(cuahang, 10)
print(list(enumerateCuahang))

```

Run the program, the result is:

```

[(0, 'banhmi'), (1, 'sua'), (2, 'keo')]
[(10, 'banhmi'), (11, 'sua'), (12, 'keo')]

```

### Example 2: Loop on the enumerate object

```

cuahang = ['banhmi', 'sua', 'keo']

for item in enumerate(cuahang):
    print(item)

print('\n')
for count, item in enumerate(cuahang):
    print(count, item)

print('\n')
# b? ??m ch? ??nh s? b?t ??u
# vi?t b?i TipsMake.com
for count, item in enumerate(cuahang, 100):
    print(count, item)

```

Run the program, the result is:

```

(0, 'banhmi')
(1, 'sua')
(2, 'keo')

```

```

0 banhmi
1 sua
2 keo

```

```

100 banhmi
101 sua
102 keo

```

Previous lesson: divmod () function in Python

Next lesson: `eval ()` function in Python

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