

List () function in Python

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The syntax of list () function in Python

```
list([iterable])
```

Parameter of list function ()

The list () list creation function in Python has a unique parameter:

1. *iterable* : an object can be string, tuple, set, dictionary or iterator iterative object

The value returned from the list

1. If the parameter is not passed, list () will create an empty list
2. If iterable is passed as a parameter, it creates a list of iterable elements

Example 1: Create list from string, tuple, list

```
# danh sách trống
print(list())

# chuỗi nguyên âm
nguyenamString = 'aeiou'
print(list(nguyenamString))

# tuple nguyên âm
# viết bởi TipsMake.com
nguyenamTuple = ('a', 'e', 'i', 'o', 'u')
print(list(nguyenamTuple))

# danh sách nguyên âm
nguyenamList = ['a', 'e', 'i', 'o', 'u']
print(list(nguyenamList))
```

Run the program, the result is:

```
[]
['a', 'e', 'i', 'o', 'u']
['a', 'e', 'i', 'o', 'u']
['a', 'e', 'i', 'o', 'u']
```

Example 2: Create list of words set, dictionary

```
# set nguyên âm
nguyenamSet = {'a', 'e', 'i', 'o', 'u'}
print(list(nguyenamSet))

# dictionary nguyên âm
nguyenamDictionary = {'a': 1, 'e': 2, 'i': 3, 'o':4, 'u':5}
print(list(nguyenamDictionary))
```

Running the program results in:

```
['e', 'o', 'a', 'i', 'u']
['e', 'o', 'u', 'a', 'i']
```

Example 3: Create list from iterator object

```
class PowTwo:
    def __init__(self, max):
        self.max = max

    def __iter__(self):
        self.num = 0
        return self

    def __next__(self):
        if(self.num >= self.max):
            raise StopIteration
        result = 2 ** self.num
        self.num += 1
        return result

powTwo = PowTwo(5)
powTwoIter = iter(powTwo)

print(list(powTwoIter))
```

Running the program results in:

```
[1, 2, 4, 8, 16]
```

See also: Built-in Python functions

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