

Function with no parameters

```
def greet():  
    print("Hello, there!")  
  
greet() # Output: Hello, there!
```

Function with parameters

```
def add_numbers(a, b):  
    return a + b  
  
result = add_numbers(3, 5)  
print(result) # Output: 8
```

Function with default parameter value

```
def greet_person(name="Anonymous"):  
    print("Hello, " + name + "!")  
  
greet_person() # Output: Hello, Anonymous!  
greet_person("John") # Output: Hello, John!
```

Function with variable number of arguments

```
def multiply(*args):  
    result = 1  
    for num in args:  
        result *= num  
    return result  
  
result = multiply(2, 3, 4)  
print(result) # Output: 24
```

OOPS

Class definition

```
class Person:
```

```
    def __init__(self, name, age):
```

```
        self.name = name
```

```
        self.age = age
```

```
    def greet(self):
```

```
        print("Hello, my name is", self.name)
```

```
    def get_age(self):
```

```
        return self.age
```

Creating objects (instances) of the class

```
person1 = Person("John", 25)
```

```
person2 = Person("Alice", 30)
```

Accessing object attributes

```
print(person1.name) # Output: John
```

```
print(person2.get_age()) # Output: 30
```

Invoking object methods

```
person1.greet() # Output: Hello, my name is John
```

```
person2.greet() # Output: Hello, my name is Alice
```