# Object Oriented Programming with Python

Gramsci Hermozo

Session 03

### Content

- Functions
- UML Class Diagram
- Classes in Python

# Defining a Function

```
def function_name(parameters):
    pass
```

# Function Parameters (1/3)

```
Parameters could be one or more
def greet(name1, name2):
  prin('Hello', name1, name2)
greet("Jhon", "Snow")
Unknown Number of Arguments
def greet(*names):
  print('Hello', names[0], ",", names[1])
greet("Jhon", "Snow")
```

### Function Parameters (2/3)

### **Keyword Arguments**

```
def greet(name, lastname):
    print('Hello', name, lastname)

greet(lastname="Snow", name="Jhon")
    __Keyword Argument **kwarg__
def greet(**kwarg):
    print("Hello", kwarg["name"], kwarg["lastname"])

greet(firtsname="Jhon", name="Snow")
```

# Function Parameters (3/3)

```
Parameter with default value
def greet(name="My Friend"):
  print("Hello", name)
greet()
greet("Jhon")
Function with Return value
def get_name():
  return "GHC"
name = get_name()
print('Hello', name)
```

# Class Diagram

**CLASS** 

**Attributes** 

Methods

# Relationships



### Visibility

Private **Public** Protected

# Definiton

class class\_name:

pass

# Class Attibutes

```
class Student:
```

school = 'Hogwarts'

# Class Constructor

```
class class_name:
    __init__(self):
    pass
```

# Class Properties

```
class class_name:
   __init__(self, prop1, prop2):
    self.prop1 = prop1
    self.prop2 = prop2
```