Object Oriented Programming with Python
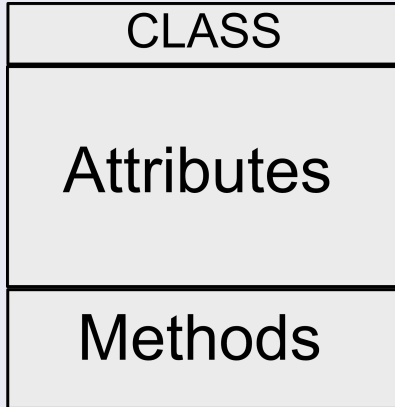
Gramsci Hermozo

Session 04

Content

- UML Class Diagram
- Classes in Python
- Attributes
- Constructor
- Methods
- User Inputs

UML

Class Diagram

CLASS
Attributes
Methods

Relationships

1

name

Visibility

- Private
+ Public
# Protected

Class

Definiton

```python
class class_name:
  pass
```

Class

Class Attibutes

```python
class Student:
  school = 'Hogwarts'
```

Class

Class Constructor

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

Class

Class Properties

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

Class

Class Methods(1/2)

```python
class Person:
  def say_your_name(self):
    print(self.name)
```

Class

Class Methods(2/2)

set/get methods

```python
class Person:
  def get_name(self):
    return self.name
  def set_name(self, new_name):
    self.name = new_name
```

User input

```python
# Input function allow the user enter values
# through the console
username = input()
print("user entered: " + username)
```