

Classes and Objects in Python

In Python, everything is an object

Types

- int
- float
- String
- List
- Dictionary
- Bool

```
a = 5
print(type(a))
```

```
<class 'int'>
```

```
a_list = [2,5,2,8,12,6,2]
```

```
a_list.sort()
print(a_list)
```

```
[2, 2, 2, 5, 6, 8, 12]
```

Create your own class

```
class My_first_class:
    i = 5
    def f(x):
        return x**2
```

```
my_object = My_first_class
```

```
my_object.i
```

```
5
```

```
my_object.f(3)
```

```
9
```

```
class My_first_class:
    i = 5
    def f(x):
        return x**2
    def __init__(self, ivalue):
        self.i = ivalue
```

```
x = My_first_class(800)
```

```
x.i
```

