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**GIT Hub Link Course Material**: <u>Pierian-Data/Complete-Python-3-Bootcamp</u>: <u>Course Files for Complete Python 3 Bootcamp</u> <u>Course on Udemy (github.com)</u>

### **Datatype**

- Number
- String
- List
- Dictionary
- Tuple
- Set
- Boolean

### **File Operation**

```
    Command reading & writing file
with
readline()
seek(0)
r+,w+,r,w,a
```

## **Operator**

• Comparison Operator

```
<><= <= != ==
```

 Logical Operator and or not

• Conditional Operator

if elif else

• Control Flow Operator

for

while do else

break

continue

pass

**Tuple-Dict Unpacking** 

### Other Operator

```
range
enumerate
zip
in
random ( shuffle & randint )
input
```

### **Method & Functions**

```
def
return
*args & **Kwargs
```

### **Other Functions**

- lambda
- map

- filter
- min max abs join
- set(alphabet)
- clear\_output

### **Object Oriented Programming**

- Class
- \_\_init\_\_ ( instantiation )
- self( attributes)
- Inheritance
- Polymorphism
- Magic Dunker Method \_\_str\_\_ , \_\_len\_\_

### **Modules / Submodules**

- pip how to install module
- PyPi to search for modules
- Modules arranged via folder -- init.py(blank file to define modules)
- \_\_name\_\_ and \_\_main\_\_ to confirm that code is called directly from main

### **Errors/Exception Handling**

• try except else finally

### **Statistics & Unittest**

- pylint generate statistics on code
- · unittest library to do unit test using class & assert method

### **Decorator**

• @<decorator function name>

### Generator

• yield -> use yield for performance

#### Collections

- Counter -> use yield for performance c.values() c.most\_common(1)
- defaultdict --> Normal dict give error if key is not found defaultdict gives null add default key
- OrderedDict
- namedtuple --> called tuple attribute via position or name
- datetime

### **Advanced Datatype**

- Numbers
- Strings
- Sets
- List
- Dict

### Debugger

• pdb

#### Timeit

• Timeit

### **Regular Expression**

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# **File Operations**

- os
- Shutil
- Zipping & unzipping files

### **Email**

- Send Email (sendmail)
- Read Email

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## **FileType Operation**

- Read Write PDF (pyPDF)
- Read Write CSV (csv)
- Working with Images