

2022 Python O to Hero part-2

April 24, 2022

0.0.1 Every Variable is Associated With Data Type

```
[3]: a1 = 10  
a1
```

```
[3]: 10
```

```
[4]: type(a1)
```

```
[4]: int
```

```
[5]: a1 = 0.2  
a1
```

```
[5]: 0.2
```

```
[6]: type(a1)
```

```
[6]: float
```

```
[7]: a1 = True  
a1
```

```
[7]: True
```

```
[8]: type(a1)
```

```
[8]: bool
```

```
[9]: a1 = "Hello World"  
a1
```

```
[9]: 'Hello World'
```

```
[10]: type(a1)
```

```
[10]: str
```

```
[12]: #complex  
a1 = 3+4j  
a1
```

```
[12]: (3+4j)
```

```
[13]: type(a1)
```

```
[13]: complex
```

0.0.2 Operators

```
[14]: #Arithmetic Operators
```

```
[22]: #+, -, +
```

```
[17]: a = 10  
b = 20  
a,b
```

```
[17]: (10, 20)
```

```
[18]: a+b
```

```
[18]: 30
```

```
[19]: a-b
```

```
[19]: -10
```

```
[20]: b+a
```

```
[20]: 30
```

```
[21]: #rrrelational operations
```

```
[23]: # >, ==, !=
```

```
[24]: a = 10  
b = 30  
a>b
```

```
[24]: False
```

```
[26]: a==b
```

[26]: False

[27]: `a!=b`

[27]: True

[29]: `a==b`

[29]: False

[30]: *#Logical operater*

[32]: *# & , /*

[36]: `a = True`
`b = False`

[37]: `b & a`

[37]: False

[38]: `a | b`

[38]: True

[39]: `b | a`

[39]: True

[40]: `a | a`

[40]: True

[41]: `b | b`

[41]: False

[42]: `b & b`

[42]: False

[43]: `a & a`

[43]: True

[]: