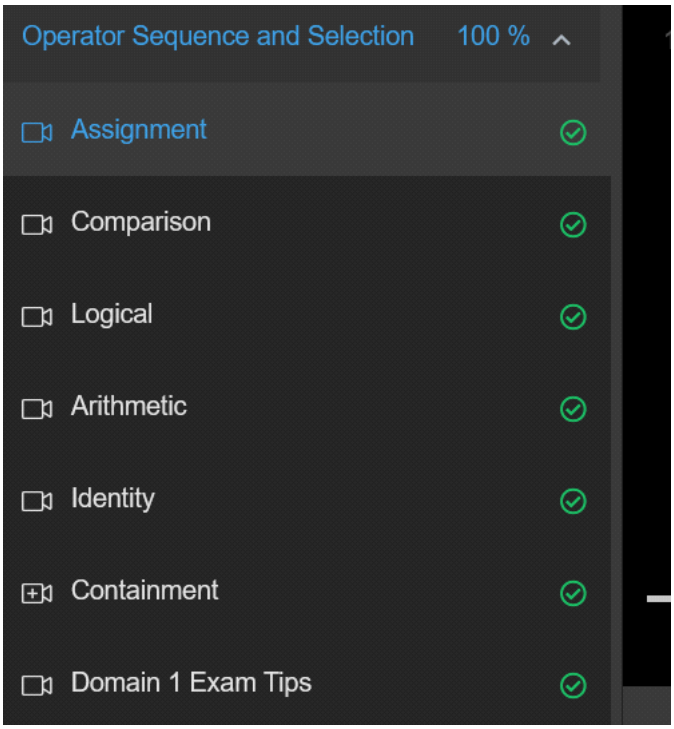
08 April 2021 21:29



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Assignment operators

when set variable to be equal to something

```
>>> region="North"
>>> firstName="Tony"

>>> sales=30000
>>> serialNumber="533444"

>>> itemReceived=False
>>> itemsOrdered=["Snowblower", "Grassblower", "EggThrower"]
```

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Comparison Operators

```
a=15
b=25
c=15

print(a==b)   //   False
print(a==c)   //   True

print(a > c)     //   False
print(a >= c)   //   True
print(a != c)   //   False
```

08 April 2021 22:00

Logical Operators

1. and — Both sides of comparison must be true
2. or — one side must be true
3. not — Takes a condition checks for opposite

```
a=15
b=25
c=15
d=20

print(a==c and a!=c)          //   False
print(a==b and b==c)          //   False
print(a==b or b==c)           //   False
print(not a ==b or b ==c)     //   True
print(a==c and b!=c)          //   True
```

Precedence

not > and > or knot and gold

! & | // mnemonic

AND Comparison operators (==, etc) are higher in precedence

```
print(not a==b or b==c)
```

```
print((not (a==b)) or (b==c))
```

Print ((not False) or False)

Print (True or False) // True

09 April 2021 14:13

Arithmetic

Precedence
()
**
unary
* / %
+ -

```
a=8
b=3

print (2+3*4-5)          //    9
print (2+3*4-5%2)        //    13
print (2+3*4**2-5%2)     //    49
```

Note

multiply, divide, %, higher precedence than +, -

exponentiation higher still

09 April 2021 17:05

Identity operator (is)

- do two operators have the same id

17 April 2021 20:23

Containment

```
sales = [30 600, 32000, 25 000]
print(25000 in sales)  // True

quote = "Turn do it "
print ("do" in quote)  // True
print ("did" in quote)  // False
```

18 April 2021 07:45

Domain 1 Exam Tips

1. Python (loosely or weakly typed)
   - variables do not need to be declared with a data type before use
2. String variables can have single or double quotes
3. Type casting may be needed to concatenate a string with a number
4. Lists are to Python what arrays are to other languages
5. Python is zero-based
6. Order of operations (Precedence)
7. People expect wire frags ++ s-x || People EXPECT . . .