

Informatik E2 Abels



Operator

Operator

Arithmetische Operatoren



```
x = 7  
y = 2
```

```
print(x + y)    # Addition  
print(x - y)    # Subtraktion  
print(x * y)    # Multiplikation  
print(x / y)    # Division  
print(x % y)    # Modulo  
print(x ** y)   # Potenz  
print(x // y)   # Division ohne Rest
```



 Terminal

```
9  
5  
14  
3.5  
1  
49  
3
```

Operator

Vergleichsoperatoren



```
x = 7  
y = 2
```

```
print(x == y)    # gleich  
print(x != y)    # ungleich  
print(x > y)     # größer  
print(x < y)     # kleiner  
print(x >= y)    # größer gleich  
print(x <= y)    # kleiner gleich
```



Terminal

```
False  
True  
True  
False  
True  
False
```

Operator

Logische Operatoren



```
x = 5
```

```
print(x > 3 and x < 10)      # und  
print(x > 3 or x < 4)       # oder  
print(not(x > 3 and x < 10)) # nicht
```

 Terminal

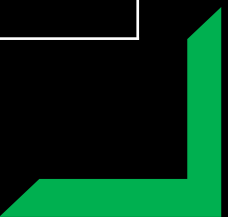
```
True  
True  
False
```



Übung 1

Fülle die Wahrheitstabelle aus:

a	b	not a	a and b	a or b
False	False			
False	True			
True	False			
True	True			

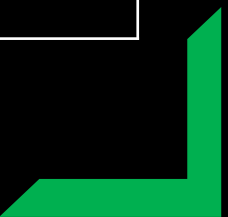




Übung 1



a	b	not a	a and b	a or b
False	False	True	False	False
False	True	True	False	True
True	False	False	False	True
True	True	False	True	True





Übung 2

Welche Ausgabe erwartest du bei folgenden Ausdrücken?



```
a = True
```

```
b = False
```

```
c = 2
```

```
d = 3
```

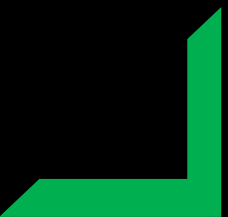
```
e = 4
```

```
print(e ** (d - 1) // d - e)
```

```
print((a == b) and (d < e))
```

```
print(not((c * d) / e >= 1))
```

```
print((not(a or True) and True) or (d < c))
```





Übung 2



```
a = True
b = False
c = 2
d = 3
e = 4

print(e ** (d - 1) // d - e)
print((a == b) and (d < e))
print(not((c * d) / e >= 1))
print((not(a or True) and True) or (d < c))
```



Terminal

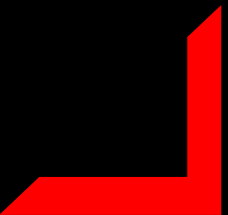
```
1
False
False
False
```





Tagebucheintrag

Operator





Wochenübung

Schreibe ein Programm **Zeugnis.py**, das bei Eingabe der Einzelnoten die gewichtete Zeugnisnote (2/3 mündlich, 1/3 schriftlich) ausgibt.

```
Terminal

1. Klausur: 2
2. Klausur: 3
1. mü. Note: 3
2. mü. Note: 4
Zeugnisnote: 3.1666666666666666
```

