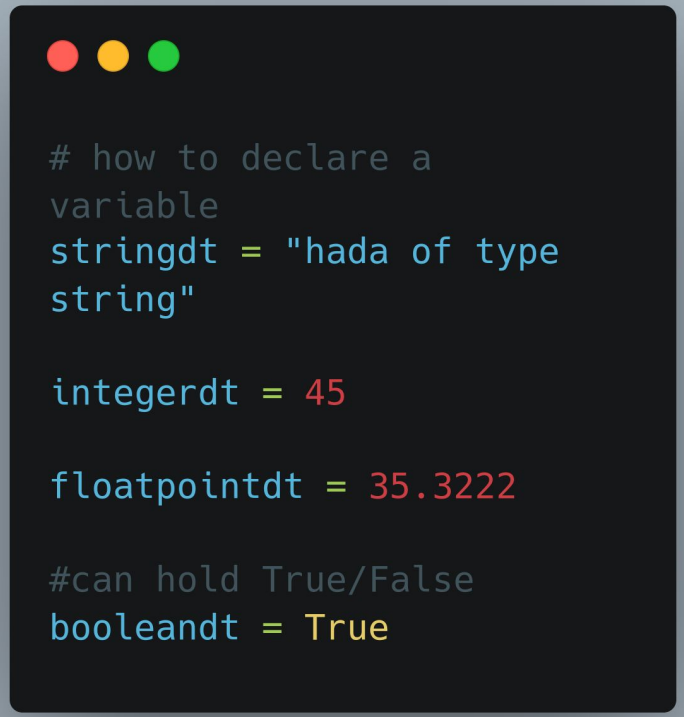
Python

Thank you Guido Van Rossum

Variables


# how to declare a variable
stringdt = "hada of type string"

integerdt = 45

floatpointdt = 35.3222

#can hold True/False
booleandt = True

Other Important Data Types

- Dictionary
  - mydiction = {“goalOne”: “learn python”, “goalTwo”: “get hands on experience and nail the fundamentals”}
  - Uses Keys and it's corresponding value
  - Mutable
- List
  - list1=[“hi”, “there”, “lets”, “learn”, “python”]
  - Indexed i.e. to output “there”
    - print(list1[1])
  - Mutable
- Tuple
  - mytuple=(“this”, “is”, “a”, “tuple”)
  - Immutable
  - Indexed

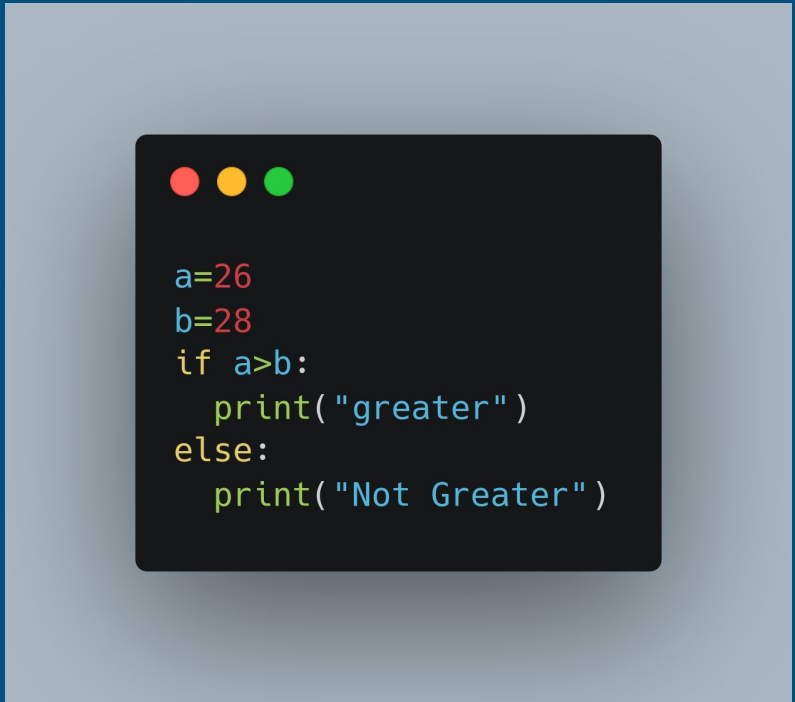
Examples Of Other DT1

Operators

- Logical Operators
  - and
    - mylist1=[6, “am”, “employed", “full-time”]
    - mylist2=[6, “am”, “studying”, “full-time”]
    - print(6 in (mylist1 and mylist2))
    - Both must be true to satisfy
  - or
    - Only one has to be true for it to evaluate to true
- Comparison Opeators(==, !=)
  - valone = 6
  - valtwo = 2
  - print(valone==valtwo) #False
  - print(valone!=valtwo) #True
- Arithmetic Operators
  - +,-,*,/,%, **, //

Conditionals

- Strictly greater… >
  -



```
a=26
b=28
if a>b:
  print("greater")
else:
  print("Not Greater")
```

Conditionals

```
num = 2222
if(1<num<10):
    print("This is a one digit number")
elif(11<num<100):
    print("This is a two digit number")
elif(101<num<999):
    print("This is a three digit number")
elif(num >= 1000):
    print("4 digit number")
```

Comments

- To place a single line comment:
  - Place a hashtag then comment whatever you want
- To place a multi-line comment
  - Use three single quotation marks ie apostrophes

Comments


this is a single line comment y'all
'''
this is a multi line comment
'''

Thank you