import numpy as np

S01 T01

Variable creation

```
In [58]:
x = 5
```

y = 8 z = 'Cristina' name = 'David'

Basic operations In [59]:

print(x * y)

In [60]: sum = x + y

In [61]: print(sum)

13

In [62]:

8 9

False

true

In [24]:

In [87]:

In [88]:

In [89]:

xDup = x * 2return xDup

print(age)

age = duplicate(x)

while y < 12: print(y) y = y + 110 **Playing with Strings** In [7]: print(z + ' is learning Python') Cristina is learning Python In [8]: print(name + ' is ' + str(sum) + ' years old.') David is 13 years old. Playing with lists In [9]: menu = ["soup", "seitan", "brownie"] for i in menu: print(i) soup seitan brownie In [10]: print("The menu for today is " + menu[1] + ".") The menu for today is seitan. **Booleans** In [63]: print(x > y) print(x == y)print(x != y)print(x < y)</pre>

False True True In [64]: **if** x < y: print (str(y) + ' is greater than ' + str(x)) elif x == y: print(str(y) + ' is equal to ' + str(x))print(str(x) + ' is greater than ' + str(y)) 12 is greater than 5 In [65]: if 'soup' in menu: print ("true")

print("false") **Dictionaries** menuDict = { "first": "soup",

"second": "seitan", "dessert": "brownie"

In [31]: print(menuDict["second"]) print(menuDict.get("first")) seitan soup In [34]: menuDict['first2'] = "salad" print(menuDict) {'first': 'soup', 'second': 'seitan', 'dessert': 'brownie', 'first2': 'salad'} **Functions** In [83]: def duplicate (x):

10 print(duplicate(y)) 24 duplicate(sum) Out[89]: 26 Adding images In [82]: michi = "Michi is a very beautiful cat" print(michi + " and he is " + str(age) + " years old.") Michi is a very beautiful cat and he is 10 years old.

In []: