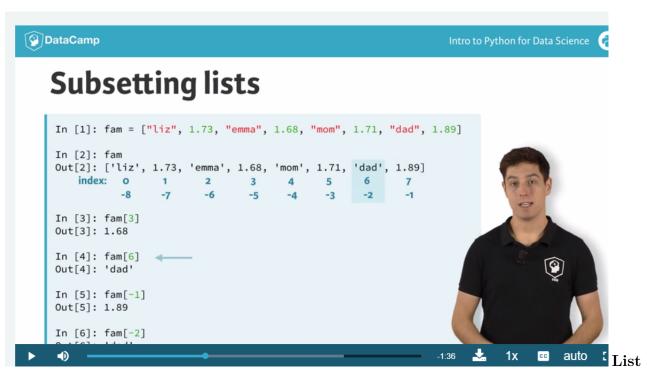
#### Some Python code

### 1 Subsetting List



#### Slicing:

```
list['liz', 1.73, 'emma', 1.68, 'mom', 1.71, 'dad', 1.89]
list[3:5]
//Terminate:
[1.68, 'mom'
```

#### 2 Add to list

```
# Add garage data to areas_1, new list is areas_2
areas_2 = areas_1 + ["garage", 15.45]
print(areas_2)
```

### 3 Delete list element

```
x = ["a", "b", "c", "d"]

del(x[1])

print(x)
```

Then we have: ['b', 'c', 'd']

### 4 Inner workings on lists

```
# Create list areas
areas = [11.25, 18.0, 20.0, 10.75, 9.50]
# Create areas_copy
areas_copy = areas
# Change areas_copy
areas_copy[0] = 5.0
# Print areas
print(areas)
```

### 5 Print type of Function

```
result = type(3.0)
# Assign type of function 3.0 for variable 'result'
print(result)
# Print 'result'
```

## 6 Length of type

```
result = 3.0 + 2.5
# Assign the value for result
print(len(result))
# Print the length of 'result'
```

### 7 Show Help in Python

```
# Show sth about the code you need help (function,...)
```

#### 8 Sorted

```
# sorted() take three arguements(iterable, key, reverse)
# If you don't spectify anything in sorted() then key=None, reverse=true
(decending order)
sorted(iterable, [ key], [reverse=])
```

## 9 Upper Method

```
# Upper String [str.upper]
room = 'poolhouses'
room_up = room.upper()
# Print room_up
print(room_up)
```

### 10 Count Method

```
# Count the string str.count([substr or str], start=, end=len(str))
print(room.count(''o''))
```

### 11 List Method

```
# Index Method areas = [11.25, 18.0, 20.0, 10.75, 9.50]
```

```
# Print Index of 20.0
print(areas.index(12.0))
# Print Count of 14.5
print(areas.count(14.5))
# Add an elemenet to the list it is called on
print(areas.append(23.00))
# Remove an element to the list that matches the input
print(areas.remove(10.75))
#Reverse the order of the elements in the list it is called on.
print(areas.reverse())
```

### 12 Numpy

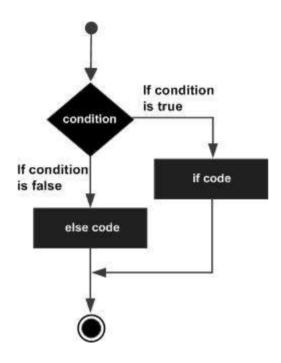
```
# Create list baseball
baseball = [180, 215, 210, 210, 188, 176, 209, 200]
# Import the numpy package as np
import numpy as np

# Create a numpy array from baseball: np_baseball
np_baseball = np.array(baseball)

# Print out type of np_baseball
print(type(np_baseball))
# Print out dtype of np_baseball
print(type(np_baseball.dtype))
```

### 13 If-else in Python

# Flow Diagram



# 14 While-For

while [expression]: statements

#### NumPy in Python

# 15 Numpy Array

```
# To use NumPy array we import NumPy package
import numpy as np
# create a list
height = [12.45,78.90,34.56,56.78]
# Use np.array(...) to make NumPy array
np_height = np.array(height)
# We can add function in array
np_height_m = np_height * 0.05
print(np_height_m)
```