

'while' Loops in Python

Now we're going to look at while loops in Python.

Again we have three different customers:

```
customer1 = "John Doe"
pickupLocation1 = "350 5th Ave"
package1 = customer1 + pickupLocation1

customer2 = "Jane Doe"
pickupLocation2 = "100 7th Ave"
package2 = customer2 + pickupLocation2

customer3 = "Joe Danields"
pickupLocation3 = "11 1st Ave"
package3 = customer3 + pickupLocation3
```

Add three packages:

```
packages = [package1, package2, package3]
```

Now add an index. Remember that lists are indexed starting from 0.

```
index = 0
```

What we will do now is traverse the list using while loop:

```
while (index < len(packages)):
    print(packages[index])
    index = index + 1</pre>
```

So we traverse the array while the index is smaller than length of packages list. Note that index has to be incremented by one after each cycle.

Working with Strings

Now let's do something when the cycle ends - for example, print a message:

```
while (index < len(packages)):
    print(packages[index])
    index = index + 1
else:
    print("no customers to print. index=" + str(index))</pre>
```

Remember we have to use str to transform integer into string, otherwise an error will be raised.