

Python training - lab 2

Multiple assignment

```
x, y = 12, 8  
print(x)  
print(y)  
x, y = y, x
```

len() function

```
x, y, z = 'abcdefg', ['a', 123, True], -6.78  
print(len(x))  
print(len(y))  
print(len(z)) # oops
```

Statements - if

if condition:

this block of code gets executed

if the condition evaluates to "truthy"

print('Yes!')

else: # else is optional

this block of code gets executed

if the condition evaluates to "falsey"

print('No!')

Statements - truthy/falsey vs True/False

Falsey values:

- [illegible]

Truthy values:

- True
- 0.4, 12, -5.0
- '0', "anything"
- [0], [' ']

Statements - if

```
if condition1:
    # do something
elif condition2:
    # do something else
elif condition3:
    pass
else:
    # do something else
```

```
# ternary operator
d = a if a > b else b
```

Statements - if

```
val = input('Enter a number: ')\n n = int(val)
```

```
if n % 2 == 0:\n    print('Nr. par')\nelse:\n    print('Nr. impar')
```

pass

```
if condition:\n    pass\nelse:\n    print('hello')
```

Statements - while

```
while condition:
```

```
    # repeatedly executes the block
```

```
    # as long as the condition is truthy
```

```
    print('while')
```

```
n = 3
```

```
while n < 10:
```

```
    print('Current number is ', n)
```

```
    n += 1
```

Statements - while

```
while condition:
```

```
    # do something
```

```
    if condition2:
```

```
        break
```

```
    if condition3:
```

```
        continue
```

```
    # do something
```

```
else:
```

```
    # do something only if there was no break
```


Statements - for

```
s = ['a', 'b', 'c']
```

```
for e in s:
```

```
    # do something
```

```
    if condition:
```

```
        break
```

```
    if condition:
```

```
        continue
```

```
else:
```

```
    # do something only if there was no break
```