Belorussian State University Of Informatics and Radio-electronics.
Faculty of computer system and networks.
Electronic Computing Machines Department.

Python language
Work with objects

Aleksej Buziuma
buzuma_leha@mail.ru

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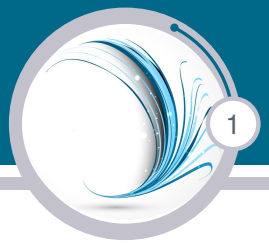
Content

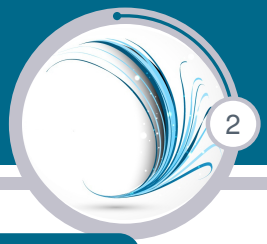


Work with objects
Assignment

Chain assigment

```
1  >>> a = b = c = 13
```

Work with objects
Assignment

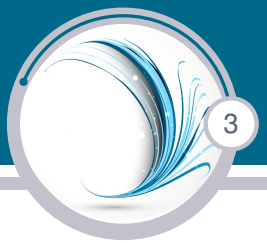


Chain assigment

```
1  >>> a = b = c = 13
```

Multiple assigment

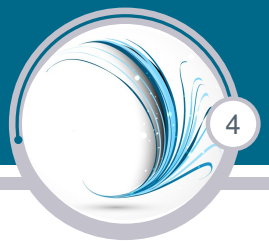
```
1  >>> a, b = 13, 42
2  >>> a, b = b, a      # swap
3  >>>
4  >>> data = [ 'book', 50, 91.1, (2015, 03, 09) ]
5  >>> name, shares, price, date = data
6  >>> name
7  'book'
8  >>> date
9  (2015, 03, 09)
```



Deleting objects

```
1 >>> a = 42
2 >>> del(a)
3 >>> print(a)
4 >>>
5 >>> a, b = 42, 666
6 >>> del(a, b)
```

Work with objects
Conversion



Conversions

```
1 #!/usr/bin/env python3
2 number = "42"
3 print("Int:{}".format(int(number)))
4 print("Int[base]:{}".format(int(number, 8)))
5 print("Float:{}".format(float(number)))
6 print("Hex:{}".format(hex(number)))
7 print("Ord:{}".format(ord(number)))
```

Immutable vs mutable
Immutable types

Immutable types | string, int, float, tuple

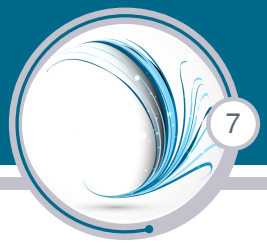
```
1 >>> x = "Hello"
2 >>> y = x
3 >>> y += "word"
4 >>> x
5 Hello
```

Immutable vs mutable
Mutable types

Mutable types | list, dict, set, object

```
1 >>> x = [1, 2, 3]
2 >>> y = x
3 >>> y += [3, 4, 5]
4 >>> x
5 [1, 2, 3, 4, 5]
```

Questions?



Questions?

Contacts

- email: buzuma_leha@mail.ru
- Facebook: aleksei.buzuma