

PYTHON FUNDAMENTALS

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Bootcamp

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AGENDA

- Review yesterday's lab topics
 - Data types
 - Print statements
 - Strings
 - User input
 - Type casting
- Lab Session 2
 - Data structures
 - Lists
 - Tuples
 - Dictionaries
 - Sets

LEARNING OBJECTIVES

During this Bootcamp, you will learn:

Day 1:

- ✓ Variables
- ✓ Datatypes (string, int, float, bool)

Day 2:

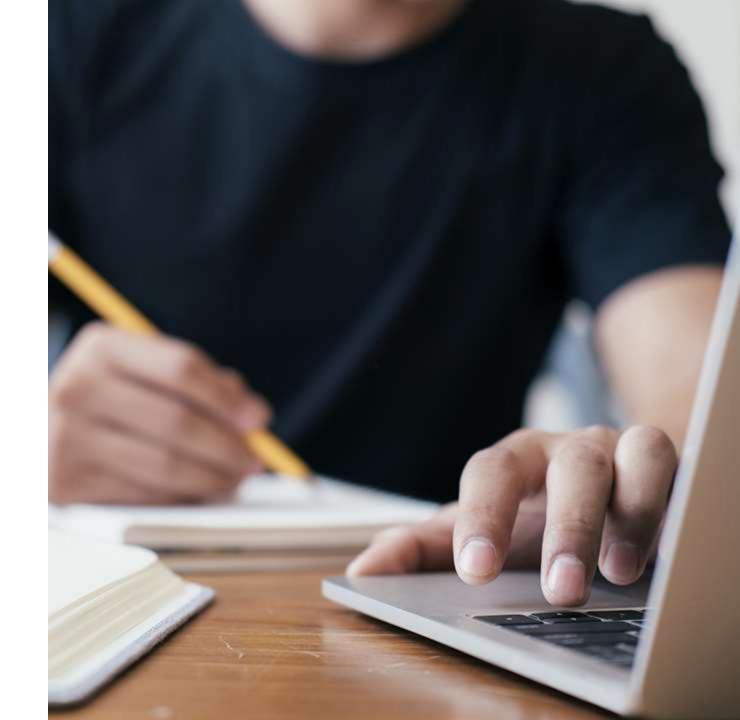
Data structures (lists, tuple, dict, set)

Day 3:

- Flow control
 - If / else statements
 - For loops

Day 4:

- Functions
 - User defined functions
 - Modules
 - Packages



DATA TYPES

```
a = 42
                                            # integer
b = 3, 14
                                            # float
                                            # string
c = "hello world"
d = [1, 2, 3]
                                            # list
                                            # tuple
e = (1, 2, 3)
f = {"name": "John", "role": "developer"} # dict
g = {"a", "b", "c", "d"}
                                            # set
```

PRINT STATEMENTS

```
first_name = "Joris"
last name = "Hoendervangers"
print(first_name, last_name, sep="-", end="\n")
```

USER INPUT

```
day = input("which day is it? ")
print("Today is", day)
```

TYPE CASTING

```
#Integer to string
days_per_week = 7
str(days_per_week)
#String to integer
score = "6700"
int(score)
```

STRINGS

```
pangram = "The five boxing wizaeds jump quickly."
print(pangram[0])
print(pangram.title())
print(pangram.replace("five", "ten"))
```



LAB SESSION 2

Topics:

- Lists
- Tuples
- Mutability
- Dictionaries
- Sets

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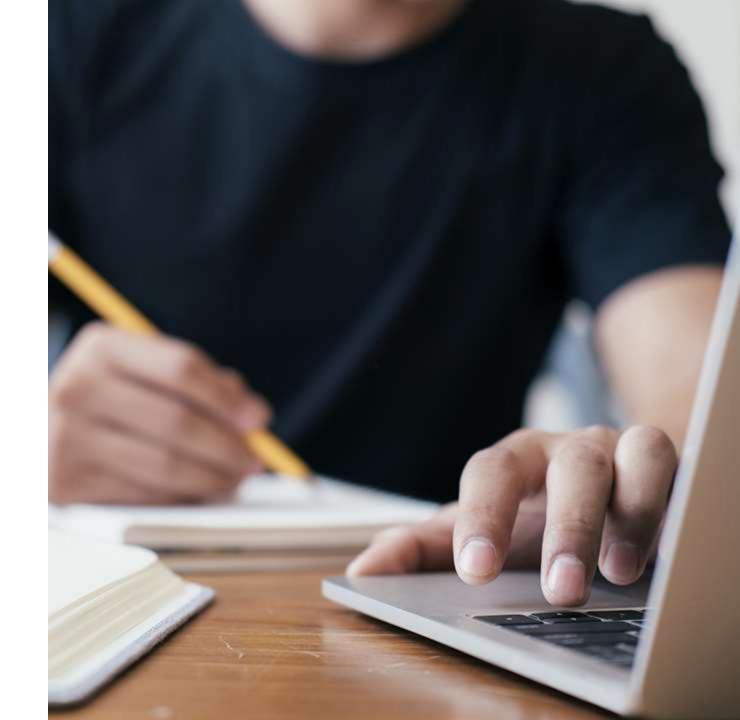
✓ Data structures (lists, tuple, dict, set)

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THE END

See you tomorrow!

