



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
c = "hello world"                     # string
d = [1, 2, 3]                         # list
e = (1, 2, 3)                         # tuple
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")
```

STRINGS

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

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)
```


A photograph of three people in a classroom or office setting. In the foreground, a man with glasses and a beard, wearing a light blue shirt, is focused on typing on a laptop. Behind him, two women are also working on laptops, their faces partially visible in profile. The background is slightly blurred, showing more of the room. A thick pink diagonal bar runs from the bottom left towards the top right, separating the image from the text area.

LAB SESSION 2

Topics:

- Lists
- Tuples
- Mutability
- Dictionaries
- Sets

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THE END

See you tomorrow!

