## Basics

### environments & IDEs

IDLE

jupyter

spyder

co-labs

pycharm

VScode

Visual studio

notepad (run it through command line)

### REPL

Read Eval Print loop

### general

object based language

oops

### Joining links

| Day 1 (1st Half) | <https://infineon.webex.com/infineon/j.php?MTID=m485493b713c74dc645673e5622f5e65f> | **758093** |
| --- | --- | --- |
| Day 1 (2nd Half) | <https://infineon.webex.com/infineon/j.php?MTID=mb17d29503d013cd71c5b0226f14cb01c> | **170161** |
| Day 2 | <https://infineon.webex.com/infineon/j.php?MTID=m2f516d03b4de1cc00dea97eba3c5a8ed> | **144354** |
| Day 3 | <https://infineon.webex.com/infineon/j.php?MTID=me062e7052c723d6cba0c9304f5af95cd> | **440173** |
| Day 4 | <https://infineon.webex.com/infineon/j.php?MTID=ma1e06e17a606e4186f59e2583192d37f> | **338384** |

# Python

## Language

### comments

# single line comments

"""

## functions

### generic

print

type

len

help

## operators

### arithmetic

+

-

/

\*

%

// floor division

\*\* power of

=

## strings

text data

double quotes & single quotes

"hello"

'world'

immutable

index

negative indexing

out of index error

slicing

step

player = “nadal”

| n | a | d | a | l |
| --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 |
| -5 | -4 | -3 | -2 | -1 |

### string functions

lower upper

title capitalize

find rfind count

isalpha isdidgit isalnum

### escape characters

\n new line

\t tab

\\ \

\" "

\v vertical

\r return key

## list

any kind of data

duplicates are allowed

index

negative index

sliced

step

nesting

mutable

### list functions

index count

reverse sort() sort(reverse=True)

insert append extend

remove pop clear