#### Python Basics

07 September 2023

## WAYS TO EXECUTE PUTHON CODE

- 1) Interpreter mode: line by line, code is not soved
- 2 Batch/file mode: entire botch/file is executed et once, code ear be saved (Script mode)
- 3) IDE: Integrated Development Envisionment

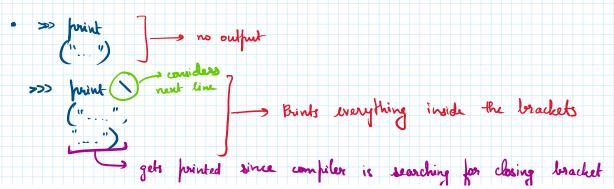
#### COMMAND LINE COMMANDS

- · cls clear terminal
- · python/python3 accesses Python and turns Command Brompt into interpreter made
  Python window
- · start (tent editor) [file name] spens text editor file w/ specified name
- · python [filename] runs program inside specified file
- · grename [ current\_name] [ new\_name]

#### SYNTAX RULES

- · You can start from any line, but the first line should not be industed
- · start of block leader Content of block - suite
- Python uses hybrid compiler-interpreter -> if there is an error in the compiler stage itself, you only get error in execution
- · Using functions that interpretes does not recognise + syntan error -> sumantic error
- . Comment a line by justing # at its beginning.
- · Command a block by endoring it in ''' (multi-line string)

## BASIC PYTHON BEHAVIOUR



gets printed since compiler is searching for closing bracket

- · All keyword parameters of a function are specified at the end,

  2g: print ("...", "...", sep="\*", end="")
- · Perint -> can evaluate agguments
  - => print ("Hello""How are you")
    >>> HelloHow are you

#### VARIABLES

- · Data already exists: variable acts as a reference to it
- · Memory is not allocated during variable creation
- · When you redefine a variable as follows:

20 4 = 6

The value of "a" does not change; rather, the reference "a" shifts from 5 to 6

· DOUBT: What about strings other datatypes?

# SIGNIFICANCE OF DATA TYPES

- · Allowed operations
- · specific memory allocation
- · Allowed values associated w/ that delatype
- · Easier to stone

#### UTILITY FUNCTIONS

- · id ([data]): Returns unique address associated w/ specific data
- · sys. getrefcount ([dote]): Returns number of references on specific data
- · \a [not a function]: Use in statements to get an audio alent
- · sys. getsize of [[data]]: Returns size of object in bytes