Day 1 → Python

1) Learning anything then steps included are theory and practical.

2) Indentation is the thing people face the most difficulty.

3) print() → identification of function — OOPS also covered.
   ↳ Shift + Tab } to gain understanding/more info of a function in Google Colab.

4) Integer, float etc not be seperately defined like in Java.
   " " → for Strings.

5) List Tuple Dictionary Set.
   [ ] ( ) { } { }
   [l = [ ] type(l) output = list]

6) if-else for while elif
   for-each loop
   [other func like max, min, slicing, etc also important (continue, break). (in list)]

7) operators, variables, keywords, datatypes } All covered which teaching above concepts.

8) List functions
   → Append, Slicing [start:end:step], count(),
   (l.append(x)) ↳ Name of list, sort(),
   clear(), extend(), insert(), pop(), reverse(), remove()
   extend() ↳ brother of append but iterable
   pop() ↳ at specified pos.

extra
10) def func (OOPS) syntax of func explained
    lambda fn (anonymous fn)

9) Similarly set, tuples & Dictionary have different methods.
   ↳ for key, value in d : (d → dict name)

11) import — itertools, math, etc are also to be remembered.

Page No.
Date

→ operation to be done
→ [x² for x in range (0, n+1) if x%2==0]

List comprehension

Extra Notes

(1) → self, __init__ func. also imp to be writing functions.

→ map(), filter(), len(), cmp(), sum(), round(), etc.

→ Strings → word.split, .replace, .[::-1], .isalnum().

→ Object → State of obj (attributes)
→ Behaviour of obj
→ Identity of obj (unique name).

2D Array (list)

[[ ]]

↳ List inside list.

OOPS in python