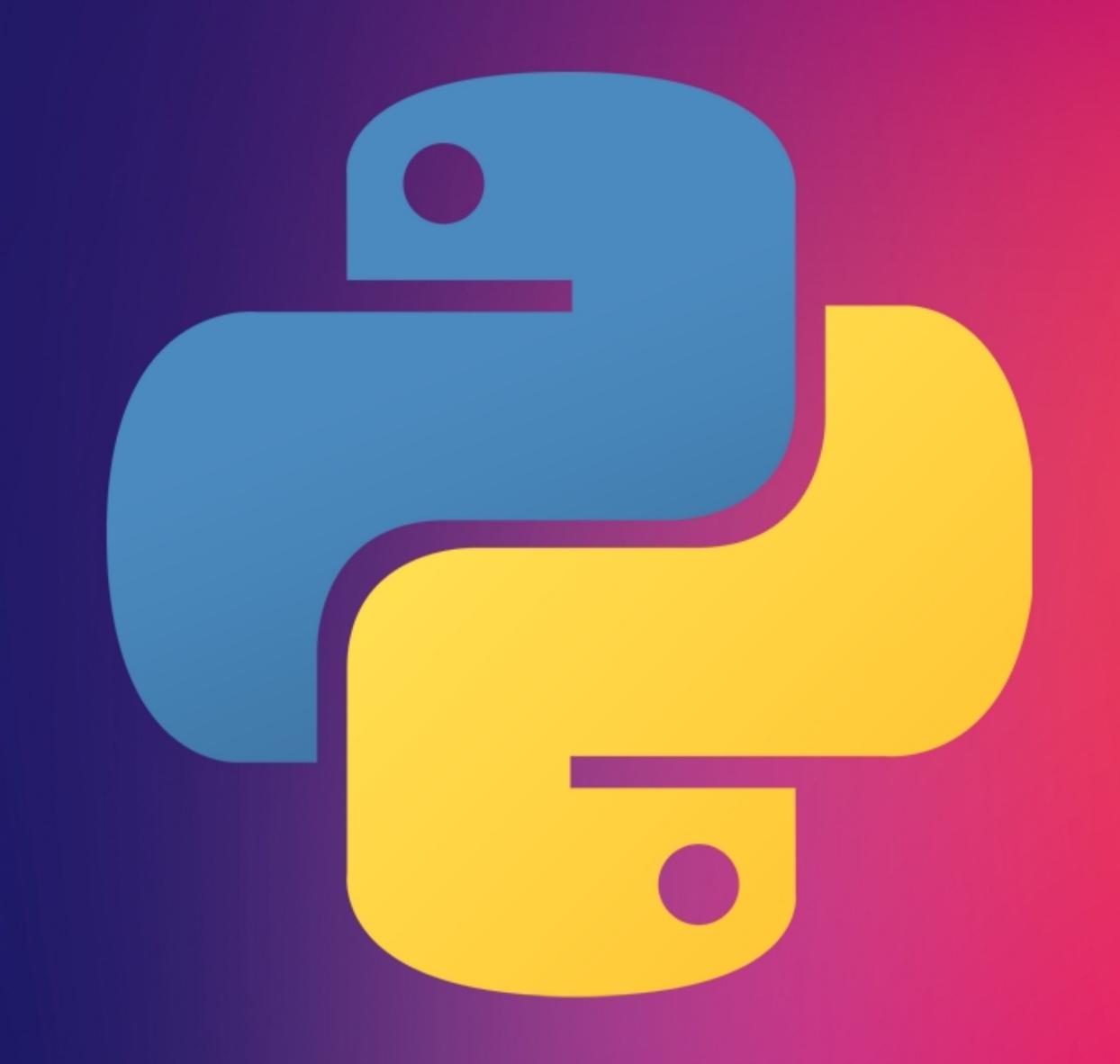
PYTHON

For Beginners

By Aman Guliani



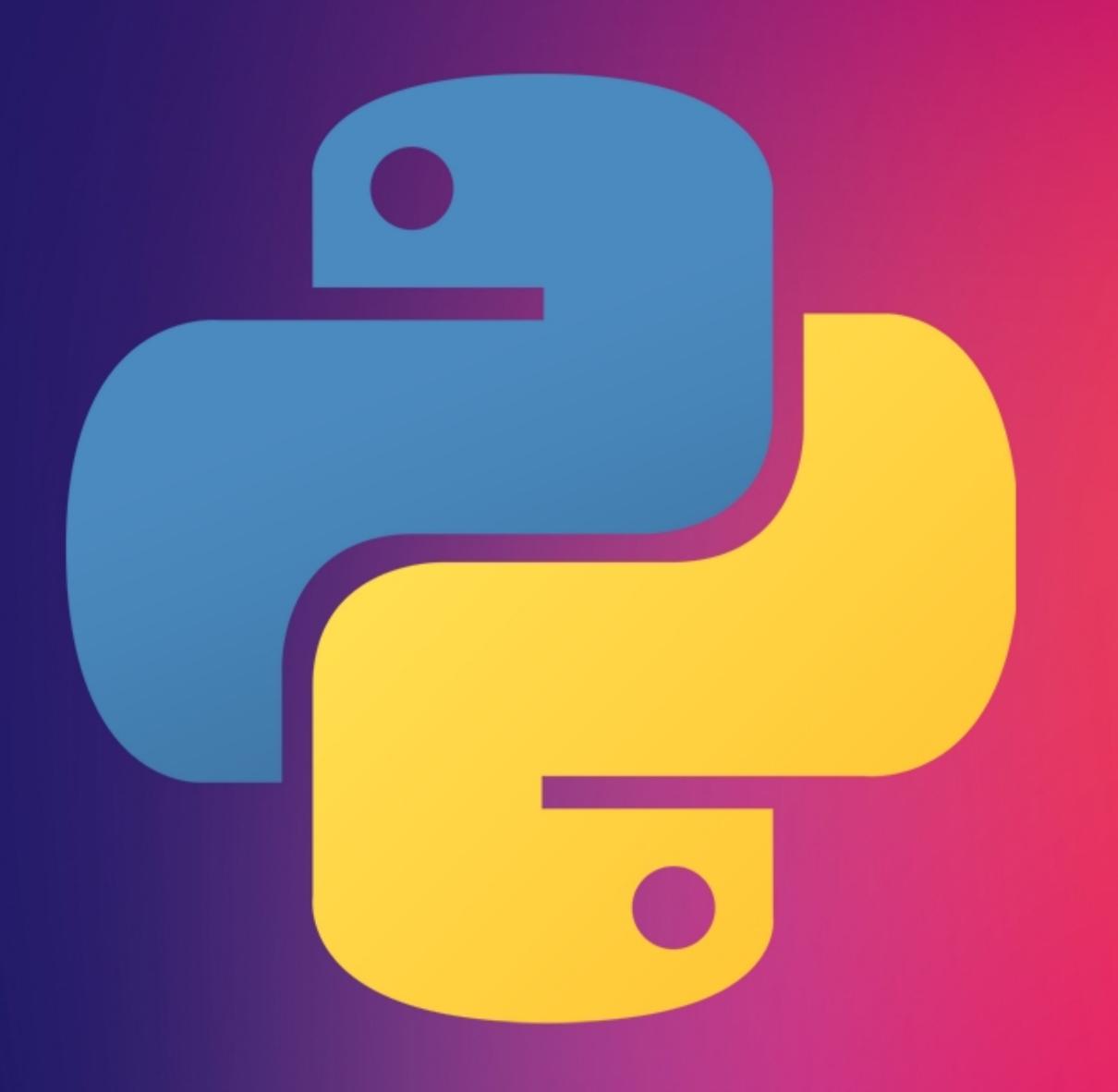
RECAP

➤ Last Time we learned

- ➤ Lists
- > Sets
- Dictionary
- ➤ Operations



FUNCTIONS



WHY DO WE NEED FUNCTION

> Programming languages are designed to work on data and functions are an effective way to manage and transform this data.

> Functions are like reusable tasks.

➤ Would you rather write a piece of code 10 times, to write it once and call it 10 times?

➤ DRY - Don't repeat yourself.

WHAT ARE PYTHON FUNCTION

- ➤ To define a Python function, you'd have to use the 'def' keyword before the name of your function and add parentheses to its end, followed by a colon(:).
- ➤ A function in Python may contain any number of parameters or none
- ➤ A Python function could also optionally return a value.
 - ➤ This value could be a result produced from your function's execution or even be an expression or value that you specify after the keyword 'return'.
 - ➤ And, after a return statement is executed, the program flow goes back to the state next to your function call and gets executed from there.
- ➤ Types of function:
 - ➤ Built in abs(), len()
 - ➤ User Defined.



USER DEFINED FUNCTION WITHOUT RETURNING

```
def my function(my str):
   print("Hello from a function"+my str)
  my function()
  def my function(country = "India"):
   print("I am from " + country)
  my function("Brazil")
  my_function()
python
```

USER DEFINED FUNCTION WITH RETURN

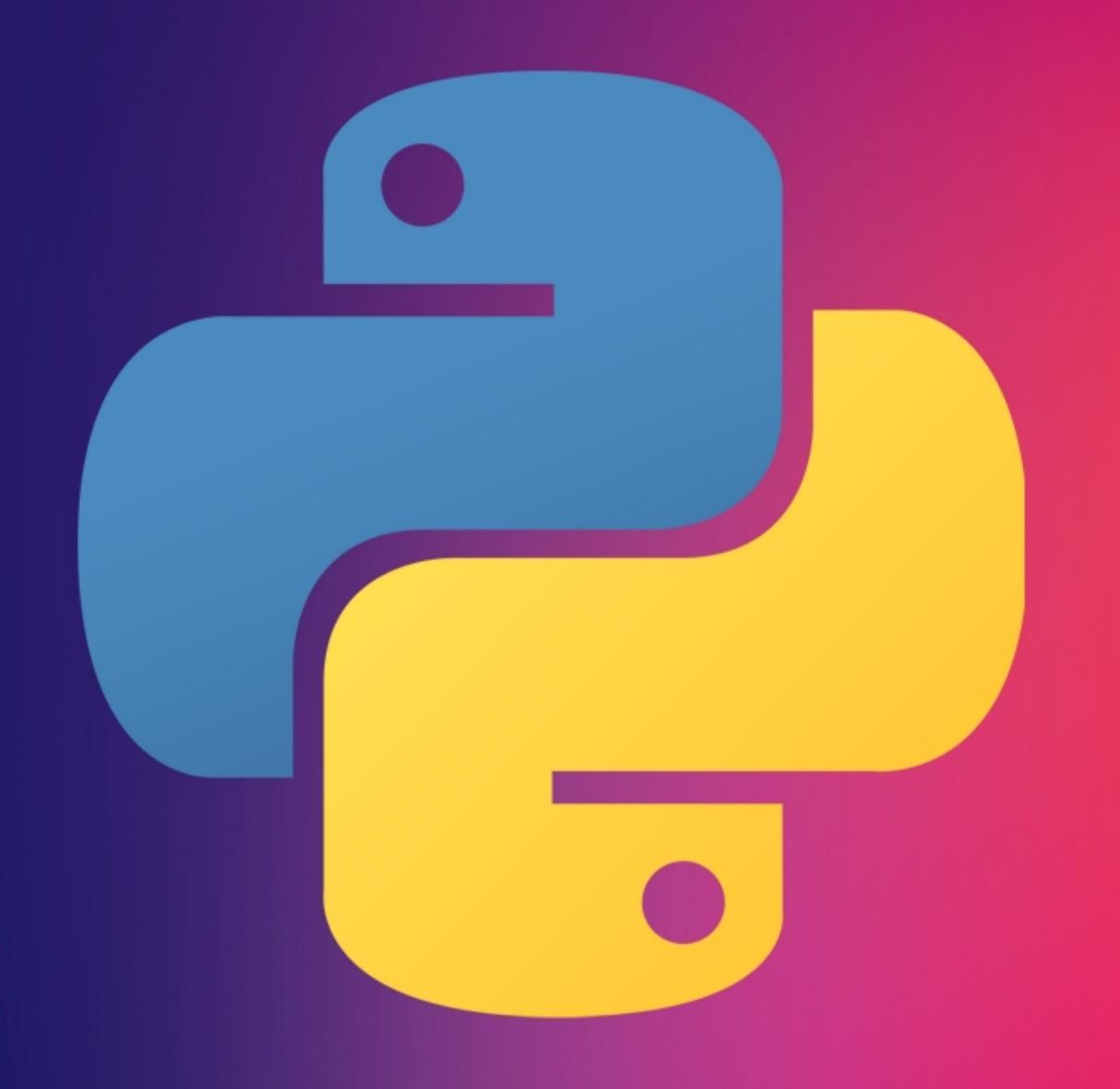
def my_function(x): # takes a parameter and returns the value multiplying it by 5 return 5*x

```
print(my_function(3))
print(my_function(5))
```

def myfunction(): # a function body cannot be empty, so you can use pass.



CLASS EXERCISE
TYING THINGS TOGETHER



EXERCISE(S)

- ➤ Problem 1 (Sets? Or List or Dictionary)
 - ➤ Given a sentence containing n words. Remove all duplicates words keeping the order of the rest of the words the same.

