Day12 Functions Part-2

1) Write your first program
2) Understanding standard library print function
3) Creating your first function with no arguments
4) Creating functions with arguments and return types
5) Calling function within function
6) Coming up with proper name of function
7) How do decide what should be input and output of the function?
8) Deciding proper data types for input & output from function.

1) print("Namaskara")

2) → print() is standard library function in python it is used to display output to the console.

3) def enoMadabeda():
    #do nothing
    pass

def print_message() -> None: #func definition
    print("Namaskara Bharath!")

#Function Invocation (calling
print_message())

4) #Parameterized constructor
def print_student_details(name: str, age: int, cgpa: float) -> int:

```
    print("Student Details:\n")
    print("Student Name is:", name)
    print("Student age is:", age)
    print("Student CGPA is:", cgpa)

    return age

def print_student_details_simple(name, age, cgpa):
    print("Student Name is:", name)
    print("Student age is:", age)
    print("Student CGPA is:", cgpa)

    return age, name

studen_age = printstudent_details("Veeresh", 19, 9)
    #Function call with arguments
print("Student age returned is:", student_age)

student_age2, student_name = print_student_details_simple
                ("Ramesh", 20, 8.7)

print("Student age returned is:", student_age2,
        "\n", "Student Name returned is:"
        , student_name)

5) def nanuFirstFunction() -> None:
    print("Nanu First Function")

def nanuSecondFunction() -> None:
    print("Nanu Second Function")
    nanuFirstFunction() #calling first function
                        insid 2nd function
```

nanuFirstFunction()

6) # Find topper in maths 5th grade

who is the topper in maths
7) # which grade?
5) # 5th grade
which school
SJB
input : grade, school, subject
output : name of the student

```
def get_topper_name(schoolName:str, grade:int,
                    sub:str, studName:str) -> str:
    # Dummy Impl
    return studName

student_name = get_topper_name("Navodaya", 5, "Ram")
print(st                                   "maths", "Ram")
```

```
def get_school_name(schoolId:int) -> str:
    return "navodaya"  # hardcord value
```

```
def get_boys_girls_count_for_grade_in_school(schoolId:int,
                                             grade:int) -> int:
    return 100,100
    # Actual code to connect to DB or file or API
      goes here
    return 100,100
```

return two datatype in function :-> Tuple[datatype, datatype]:
def get_count_students_male_female() ->

```
boys_count, girls_count = get_boys_girls_count_for_grade_in
                          _school(1,5)
print("count of boys & girls", boys_count, girls_count)
```