Day 5 - FUNCTIONS

• A function is a set of statements that take inputs, do some specific computation and produces output. The idea is to put some commonly or repeatedly done task together and make a function, so that instead of writing the same code again and again for different inputs, we can call the function.

· A function is defined using the def keyword

```
In [2]: def my_function():
    print("Hello from a function")
```

· Calling a function is easy as to call only the function name

```
In [3]: def my_function():
    print("Hello from a function")
```

 Arguments are specified after the function name, inside the parentheses. You can add n number of arguments

```
In [4]: def csk(fname):
    print('Player name is ' + fname)

    csk("Dhoni")
    csk("Raina")
    csk("Sam")

Player name is Dhoni
    Player name is Raina
    Player name is Sam
```

A parameter is the variable listed inside the parentheses in the function definition.

An Argument is the value that is sent to the function when it is called.

• if your function expects 2 arguments, you have to call the function with 2 arguments, not more, and not less

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• If you do not know how many arguments that will be passed into your function, add a * before the parameter name in the function definition.

```
In [6]: def my_function(*team):
    print("The youngest member is " + team[0])

my_function("sam", "tom", "ben")
```

The youngest member is sam

• You can also send arguments with the key = value syntax & the order of the arguments does not matter.

```
In [7]: def my_function(child3, child2, child1):
    print("The youngest child is " + child1)

my_function(child1 = "Sam", child2 = "Ben", child3 = "Tom")
```

The youngest child is Sam

• If you do not know how many keyword arguments that will be passed into your function, add two asterisk: ** before the parameter name in the function definition.

```
In [8]: def my_function(**players):
    print("His last player is " + players["lplayer"])

my_function(fplayer = "Rayudu", lplayer = "Deepak")
```

His last player is Deepak

• To let a function return a value, use the return statement:

```
In [9]: def my_function(x):
    return 5 * x
print(my_function(3))
```

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passing a default value while initiation

```
In [10]: def csk(fname = 'Dhoni'):
    print('Captain for CSK is ' + fname)
    csk()
```

Captain for CSK is Dhoni

Exercise:

1)Create a function getting two integer inputs from user. & print the following:

```
Addi|tion of two numbers is +value
Subtraction of two numbers is +value
Division of two numbers is +value
Multiplication of two numbers is +value
```

Here the value represents math function associated

```
Enter the first no.4
Enter the second no.1
Addition of two numbers is 5
Subtraction of two numbers is 3
Division of two numbers is 4.0
Multiplication of two numbers is 4
```

2) Create a function covid() & it should accept patient name, and body temperature, by default the body temperature should be 98 degree

```
In [15]: name = str(input('Enter Patient Name : '))
body_temperature = int(input('Enter Body Temperature : '))

def covid(name, temperature="98"):
    print("The name of patient is " + name)
    print("The body temperature of the patient is ", temperature)

covid(name, body_temperature)
covid(name)
```

```
Enter Patient Name : Aakanksha
Enter Body Temperature : 96
The name of patient is Aakanksha
The body temperature of the patient is 96
The name of patient is Aakanksha
The body temperature of the patient is 98
```

Completed Day 1's notes & exercises

THANK YOU!

Check out My Repository at https://github.com/AakankshaJarode/BestEnlist_Python_Internship.git (https://github.com/AakankshaJarode/BestEnlist_Python_Internship.git)

Chech out My LinkedIn Page at https://www.linkedin.com/in/aakanksha-jarode-1b0195179)