**Python sprint – Session 2**

Hey everyone!

Hope you all remember the first session and had fun. So let’s start with our second session of Python sprint. Today the agenda is:

1. Python programming
2. Loops, lists and other advanced concepts

So we will start. In the last session, we learned a lot about programming. Most of you have solved the sample problems. Now, we goto do this with python. Python is one of the most advanced languages that has a craze in the recent days. Python is not just for raw coding. There is web development, IoT, Data science, machine learning, bot platform and much more that are easy to develop with the help of Python.

We are gonna give you some basics here and links to refer where you can learn python the hard way.

Let’s start by declaring variables.

a=5

Simple that’s it. Wanna declare a string?

a=””

To get input, a=input()

I hope all of you are using python 2.7. If yes, you don’t need semicolon at all. A major programming bug is gone. ☺

You can use + operator to add, append string.

To print, give print “”

Print “hello”+”hii”

In python, indenting is very important. We use to indent a block of code instead of brackets. No curly braces in python. Use colon.

if(condition):

statements

else:

statements

Its time to go for loops. You wanna loop through an array. Its easy with python. Say a[] is the array.

for i in a:

print i //prints a[i]

Seems simple isn’t it? Actually, more complex stuff in other languages are much simpler in python.

To declare an array, simply put

a=[]

It means that a is an array. You don’t need to mention the size. Now here comes the awesomeness.

This array(list is much more appropriate) can have multiple data type inside unlike the other arrays you create.

a=[1,”hello”,object] is possible. We can also have list of lists to denote 2-D arrays or for other simple iterative purposes.

We will deal with some more concepts in the next session. As of today, this will suffice. You can practice the problems that were given for session 1. Solve that using python. Just give it a try.

If you find solution to the problem, just ping us in the group. We will ask you to upload your code. Once the code is uploaded, if it is correct, we will discuss the code in the group. Then we will go for another problem.

Good luck!

Have fun coding!