* **Explain in detail what will be  the output of the following program?.**

**x = 4**

**y = x + 1**

**x = 2**

**print x, y**

* The above mention code in question is throwing a syntax error

which is saying that Missing parentheses in call to 'print'. Did

you mean print(...)?.

* Above syntax error means that we need to include variables name within parenthesis ( ) in order to print what stored within

it.

* If we rectify above mistake by putting variable name within parenthesis and then we run the code then we will get 2,5 in output because the previous value of x(which is 4) is over ride by the latest value of x(which is 2) that’s why we see 2 5 in the output not 4 5 and we are getting 5 in the output along with 2 is because y = x + 1 = 4 + 1 = 5.
* The x value is taken as 4 in python because when the second line of the code running at that time 3rd line doesn’t exist for the python, I mean cursor always fetch the previous value of the variable when the second line is running, it doesn’t fetch the upcoming value of same that variable because python code runs line by line not as a compiler so that’s why it is interpreter in nature.