IIT Madras

ONLINE DEGREE

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So, we will be changing our gears and we will be looking at some practice programs this week. So, mostly we will not be teaching anything new in Python, but we will be making you get familiarized with the programming environment in general, in making you write some codes and making you get used to writing long codes.

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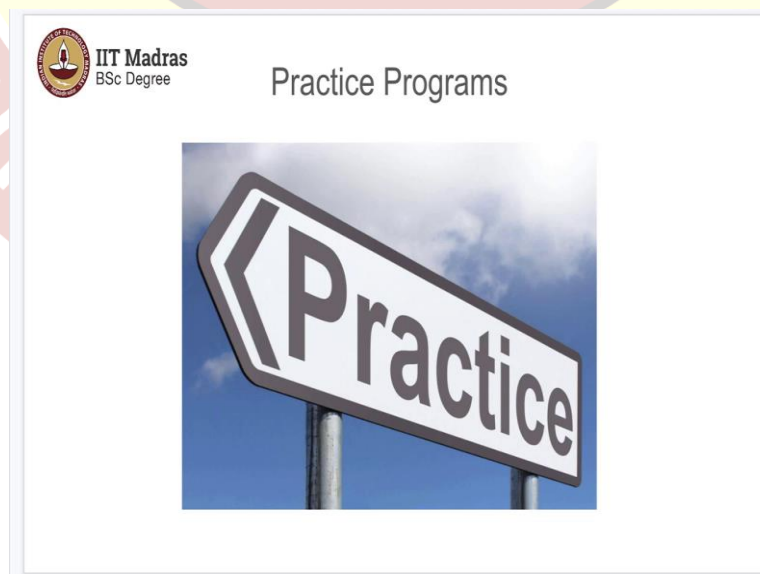
So, what we will be doing is, we have picked some practice programs which we will be using time and again in our forthcoming weeks too. So, we are going to introduce you people to those programs this week.

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And some 5 to 6 questions we will ask, write corresponding programs for it and then the same code will be revisited in the forthcoming weeks and we will show you how you can better these codes as you learn more and more of Python.

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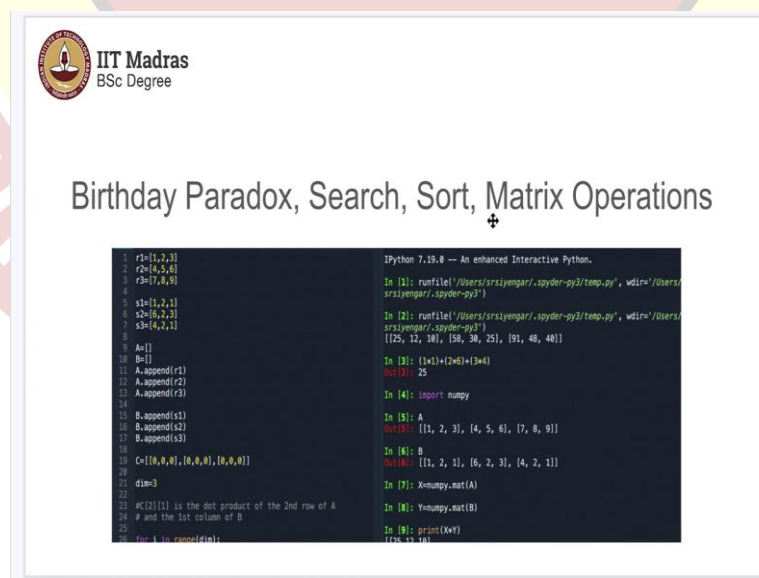
So, to briefly state, we will be discussing the birthday paradox, I am sure you remember that from your computational thinking course. Some searching in a list which again is going to be a very very naive and straight forward way of searching. Sorting, the very very obvious way

and some matrix operations. You see, your course involves good deal of understanding of matrices and here we give an introduction to how to medal with a matrix using Python. In fact, we are not going to go into the details of it, but we will be discussing how you can find the sum or product of two matrices.

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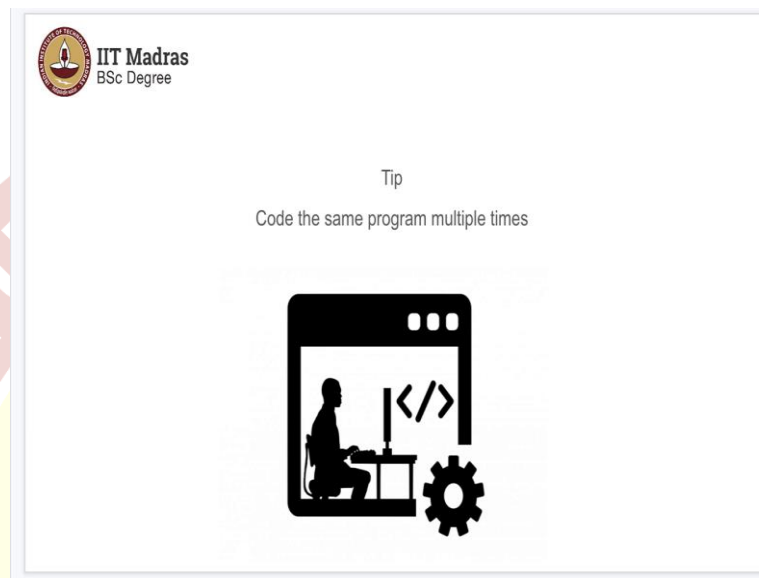
And finally, here is a tip. The reason why we are dedicating this entire week for coding is to ensure that you get used to coding. Some of you are ahead, some of you are sort of behind, but do not worry. In this week, you, we will try to push all of you on to the same line, meaning people who are not very comfortable with coding will get comfortable but you may want to follow this tip.

The tip is, code the same program multiple times. We have been saying this again and again, we would like to exert more on this very line that you may want to write a piece of code by watching how we code and then delete it and then redo it independently. Do it multiple times and until you feel comfortable.

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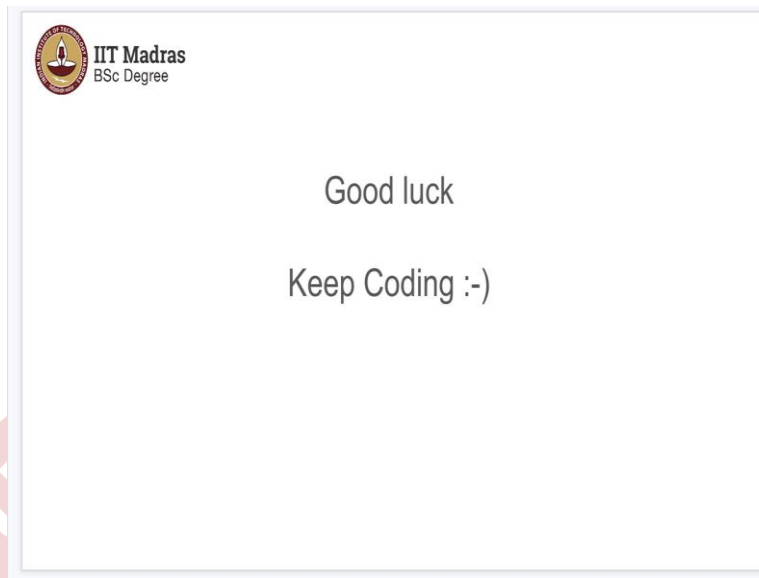
So, good luck coding, let us start off with some programming right now.