

FUN WITH CALENDAR: 12

Alright guys so in this joy fun with calendars we had seen some cool tasks that can be done using some library provided by python we had seen them in the pre requisites also we had seen a task of given a date can you predict which day of the week that date falls on we have seen that so the next task we are going to see is you have to fetch the current time not only in the time zone that is followed in your current location but as per the time zones across the world that is what are all the time zones that is present i need to get that time as per all those time zones that's what i want to do. So let me do that so as we had seen to get the current time we need to use the date time library so there is a super set as well as the sub set as i have discussed in the pre requisites video we just want to work with the sub set so let's import it. From the super set date time library import the sub set date time library as dt because the name is lengthier so i am using a short name as dt so that this is to get the current time and you are going to work with time zones as well so let me import the library pytz py for python and tz for time zone so let me import this as well. So the first thing i have to do is i have to get the list of all the time zones. So let me call that as time zones time zones is nothing but it is given by this built in functionality in pytz library just say pytz dot all underscore time zones so if you just say that you will get the list of all time zones here so now simple just iterating through the list. We have the list of all time zones and we know given time zone we can fetch the current time as per the time zone so we are going to iterate through this list and then we are going to display the time corresponding to each time zone in this list. So let us just iterate it lets say for i in range length of this list the name of the list is time zones just iterate over this list so my current zones is nothing but at the ith element right so i am picking the current zone, i am iterating over the list i am picking the current element where i am standing i am picking the current position element so i have picked the current zone so now i should create a time zone instance time zone object a special object to work with time zones as we have seen in the pre requisite video we will be creating a special object so let me say tz time zone the convenient representation pytz the library name dot time zone is the functionality and what is the time zone that i need it is given by the variable zone this particular time zone is what i need so i have created an object and now i can print the current time easily right so i will print current time at zone what is a zone that is given by the variable zone is the current time how will we get it? From this date time library dt dot now is the functionality and to this functionality i have to pass this time zone object tz so i have passed it and so i got the time zone now right so that's it just we can get the lists of all the time zones from this library pytz py for python and tz for time zone can get all the time zones and we are iterating over this list creating a time zone object special object by which you can work at that time zone irrespective of whatever is your current location a special time zone object we are be creating and we are passing the two functionality that fetch the current time so that it fetches the time as per that time zone and then we are printing the fetched time that's what we are doing just simply iterating over the list. I hope from the pre requisites video if you are very clear and from the slides that i have discussed given the task it's very easy you can easily connect the doubts and you can come up with this code this is really very easy see the code is just some eight lines probably another there are some spaces in between so some six seven lines of code that's it that's what we are using but what is the magic it's doing? You

will understand if you get the output. So let me save this let me run this code see i am getting the output oh my god oh so fast it's done see some five hundred plus time zones we have seen everything everything is outputted just in fraction of seconds that's the magic so you can know the time at any place in fraction of seconds by using your python programming skills. Alright guys i hope you enjoyed this series on fun with calendars, thanks for watching. Have a nice day.