# SoC’22

Personality Detection using data from social media

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1. Numpy :

* In first question, we were supposed to return the common elements of two array. This task is being done by using the keyword “intersect1d” in numpy arrays.
* In part b , “allclose” function is being used for checking whether two numpy arrays are equal or not.
* In part c , just normal arithmetic operations are used on 2d arrays A and B , ((A+B) \*(-A/2)).
* In part d, a 2d array is given containing the cartesian co-ordinates of 10 points, we are supposed to prepare a 2d array which stores the same points but in polar coordinate format, this task is implemented by row wise operations on the given array (like operation sqrt(a1^2+a2^2) in every row would give the distance and a2/a1 would give tan (second element in the final required array in a given row))

1. Pandas:

* In part a, we have to drop the dublicate rows which can be done by using “drop\_duplicates()” function.
* Goal is to find the mean and subtract from each element in a row this thing is done by normal arithmetic function “sub”.
* In part c , initially we filtered the dataframe depending on the value of “grps” , we divided the whole dataframe in three parts (whose “grps” values are “a”,”b” and “c”) the the tree dataframes obtained are sorted based on the values in the column “vals” and then top three elements in the sorted datagrames are added and printed.
* **Thank You**