NAME = PANKAJ KUMAR SAINI

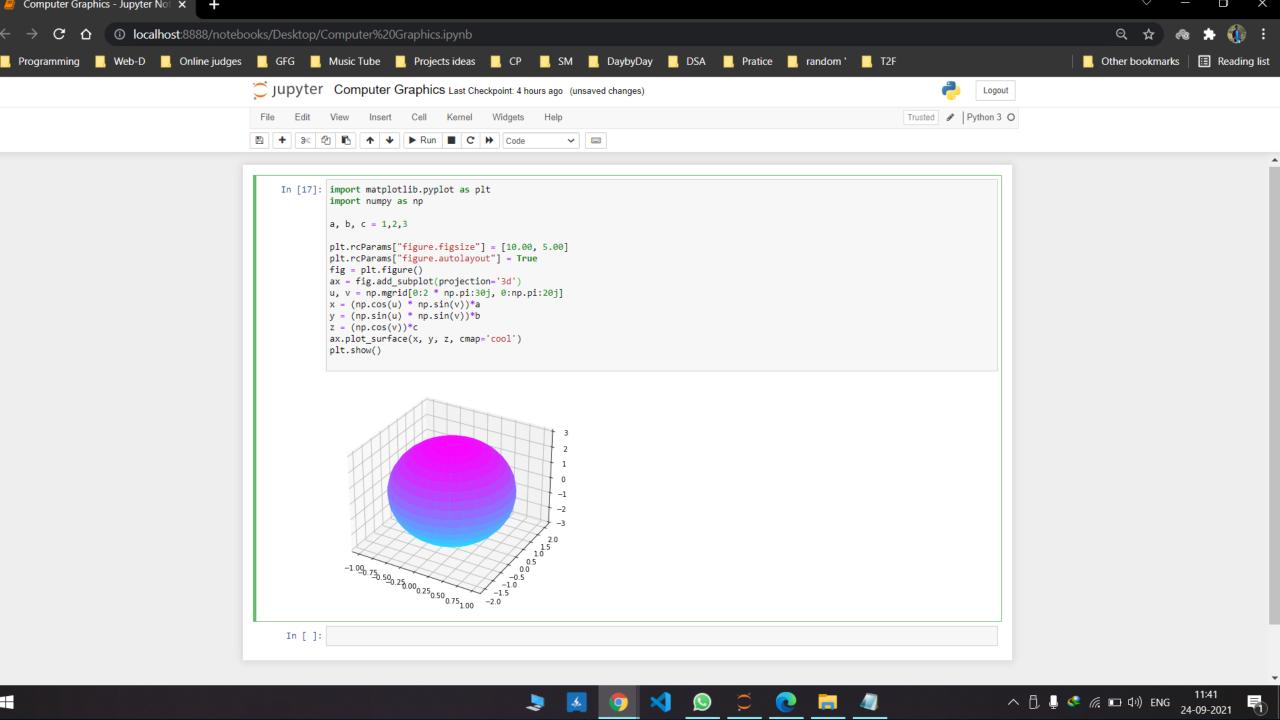
ROLL NO = 2019IMG-044

CG LAB ASSIGNMENT-1

TASK-1 A

ELLIPSOID

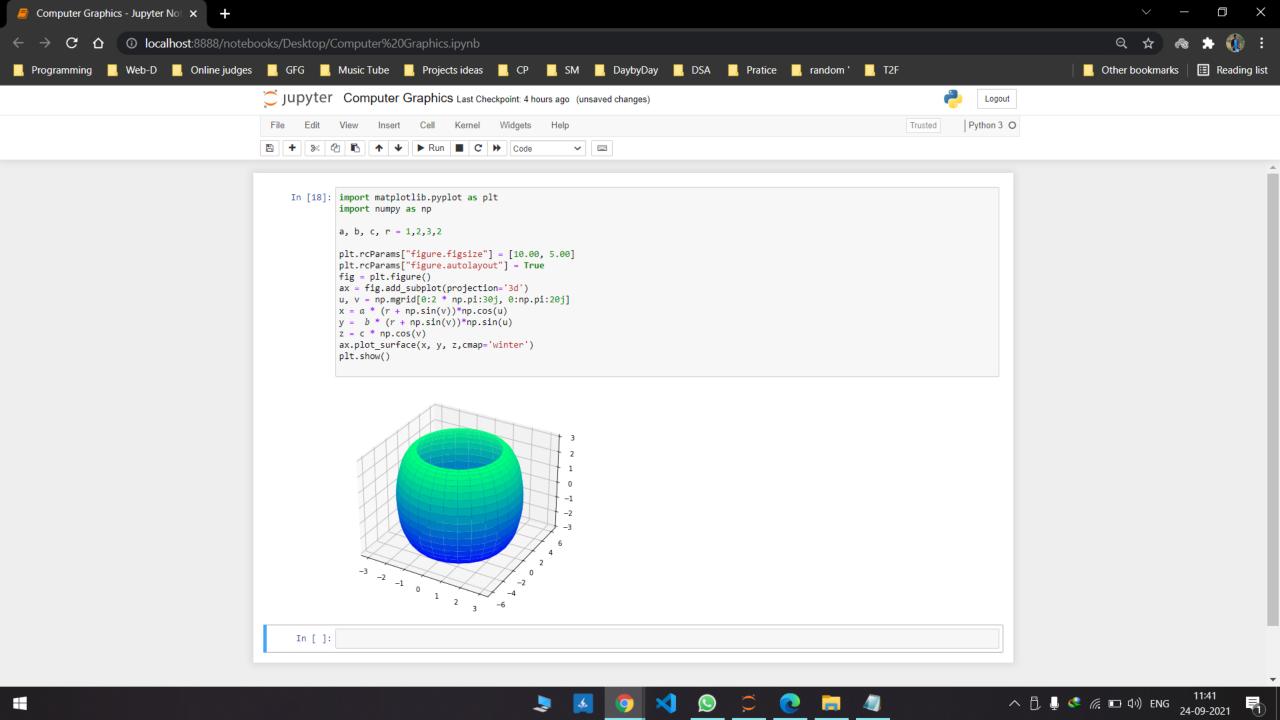
(BELOW PHOTO CONTAIN CODE AND PHOTO FOR ELLIPSOID)



TASK-1 B

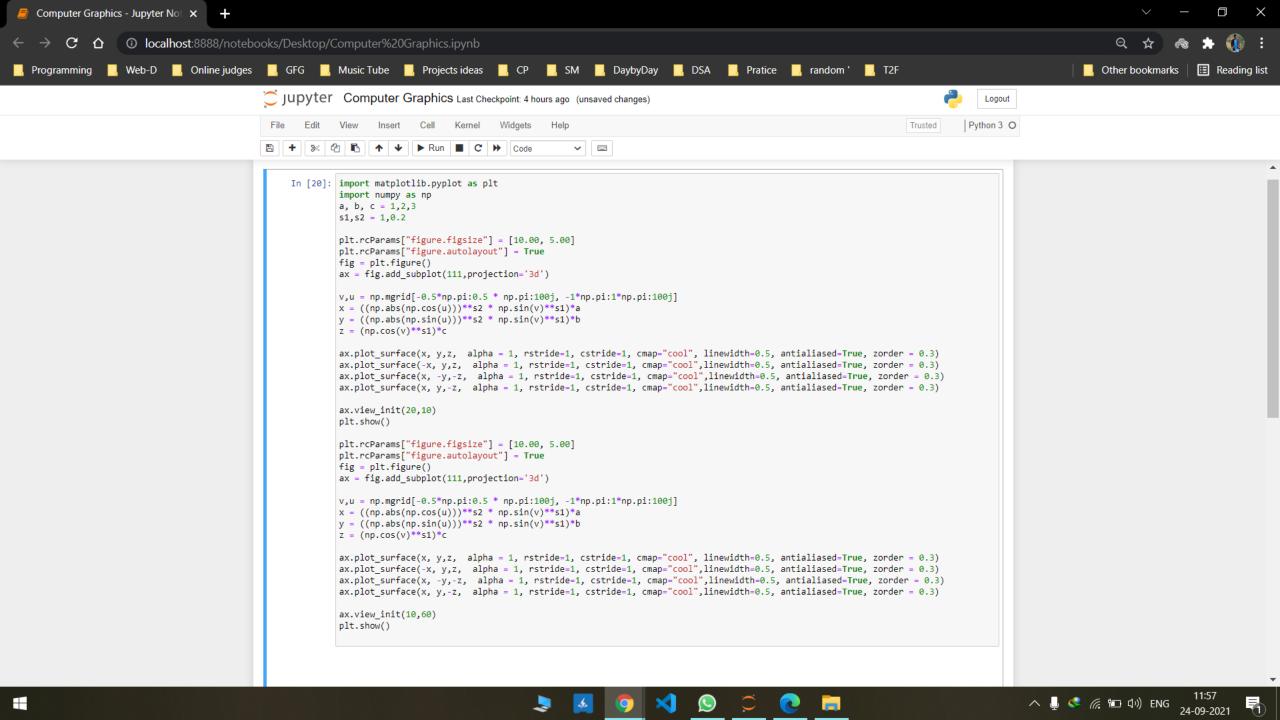
TORUS

(BELOW PHOTO CONTAIN CODE AND PHOTO FOR ELLIPSOID)



TASK 2 SUPER-ELLIPSOID

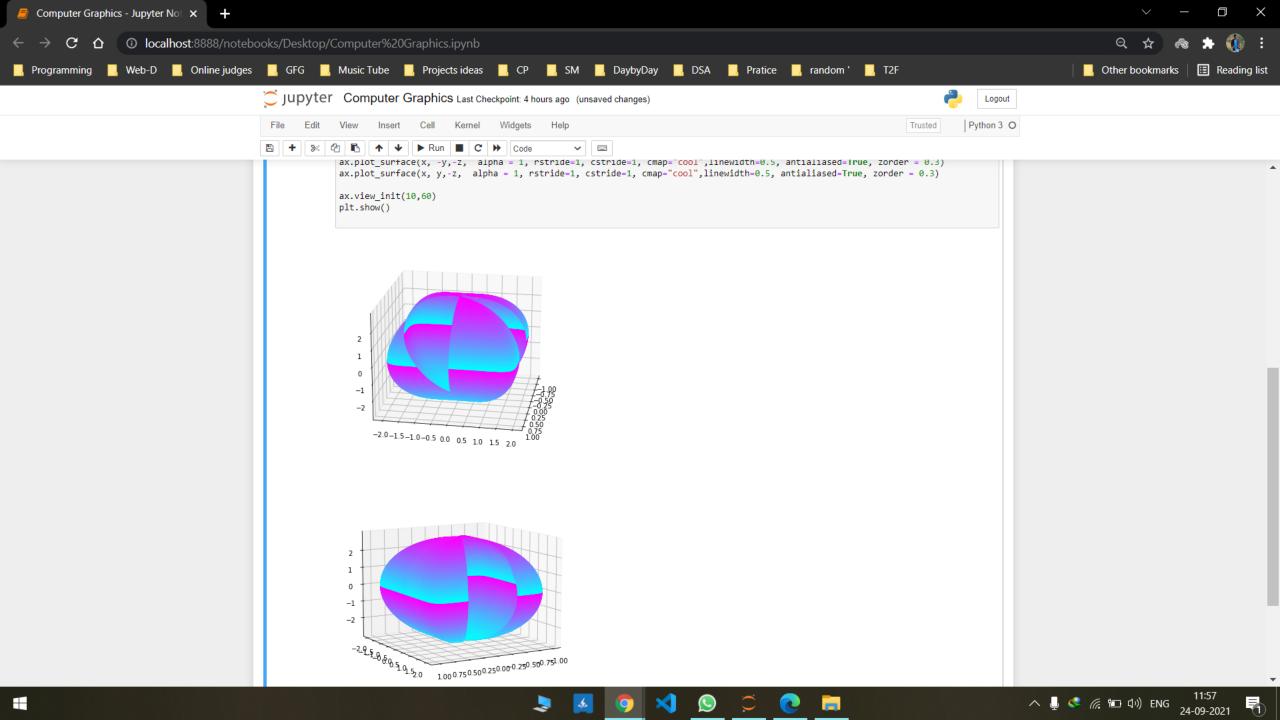
HERE I AM PASTING ONLY ONE CODE AND IT IS SAME FOR ALL GRAPH. WE JUST CHANGED THE VALUES OF S1 AND S2 AND REMAINING CODE IS SAME FOR ALL SCREENSHOTS



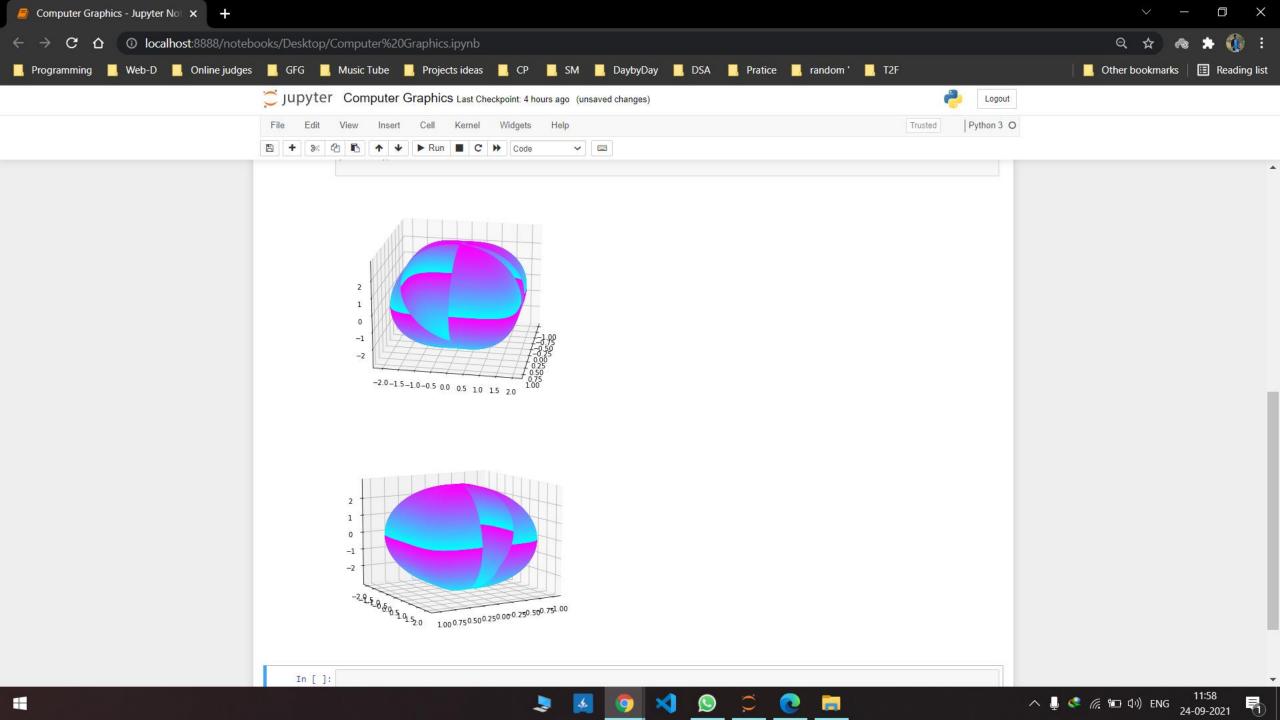
ABOVE CODE IS FOR SUPER ELLIPSOID HERE WE WILL CHANGE THE VALUES OF S1 AND S2 AND WILL GET DIFFERENT VARIATIONS

AND WE ARE PLOTING 2 GRAPH IN ONE SCREENSHOT BOTH GRAPH ARE FROM DIFFERENT ANGLE

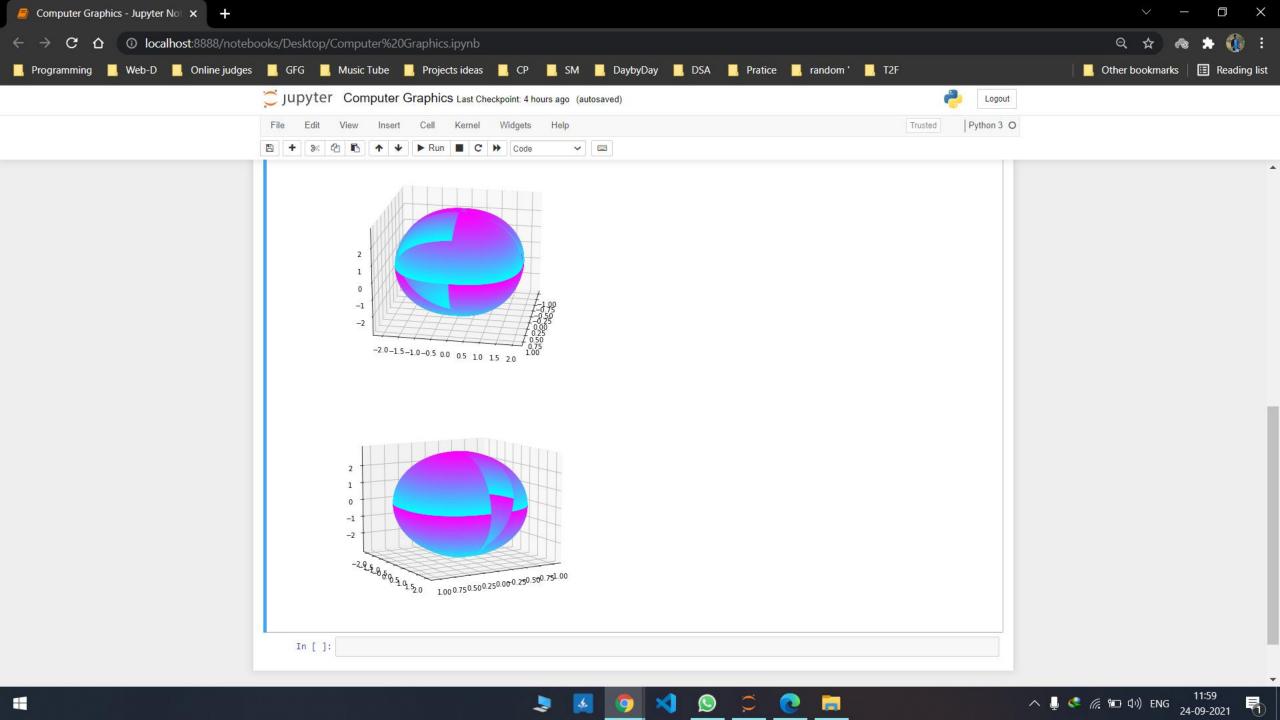
FIRST VIEW FROM (20,10) SECOND VIEW FROM(10,60) WHEN S1=1 AND S2=0.2



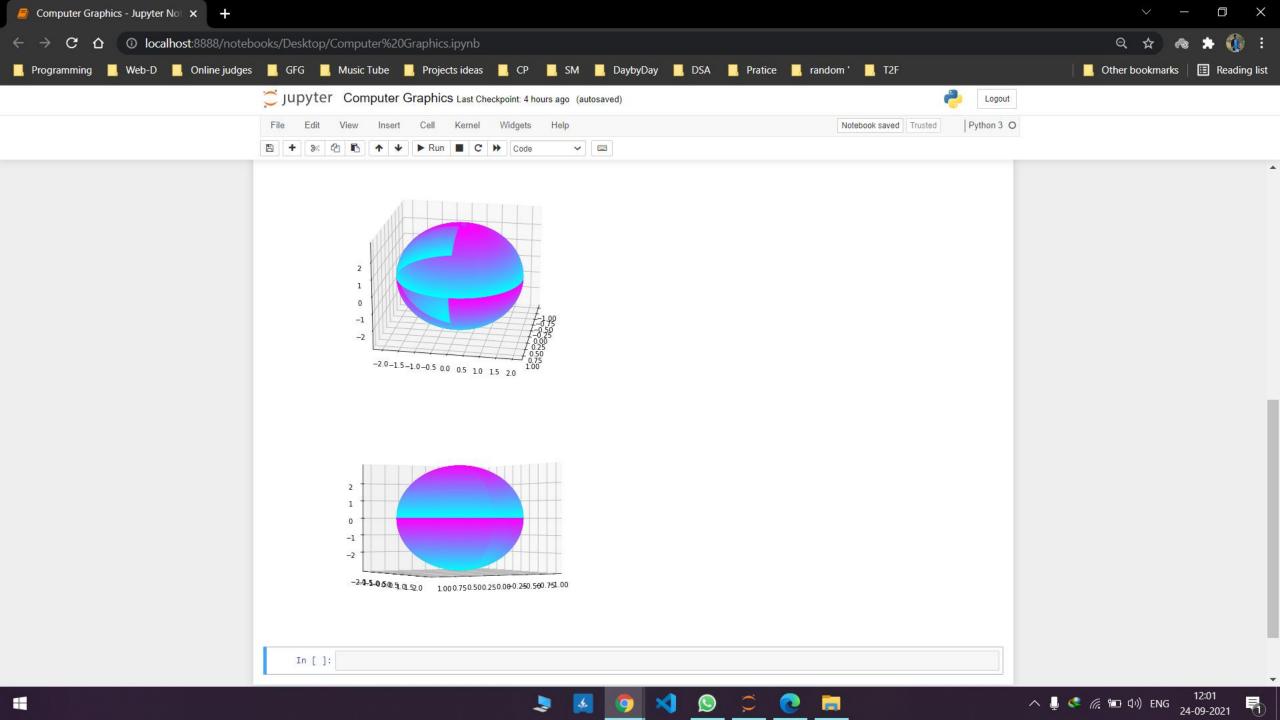
WHEN S1=1 AND S2=0.4



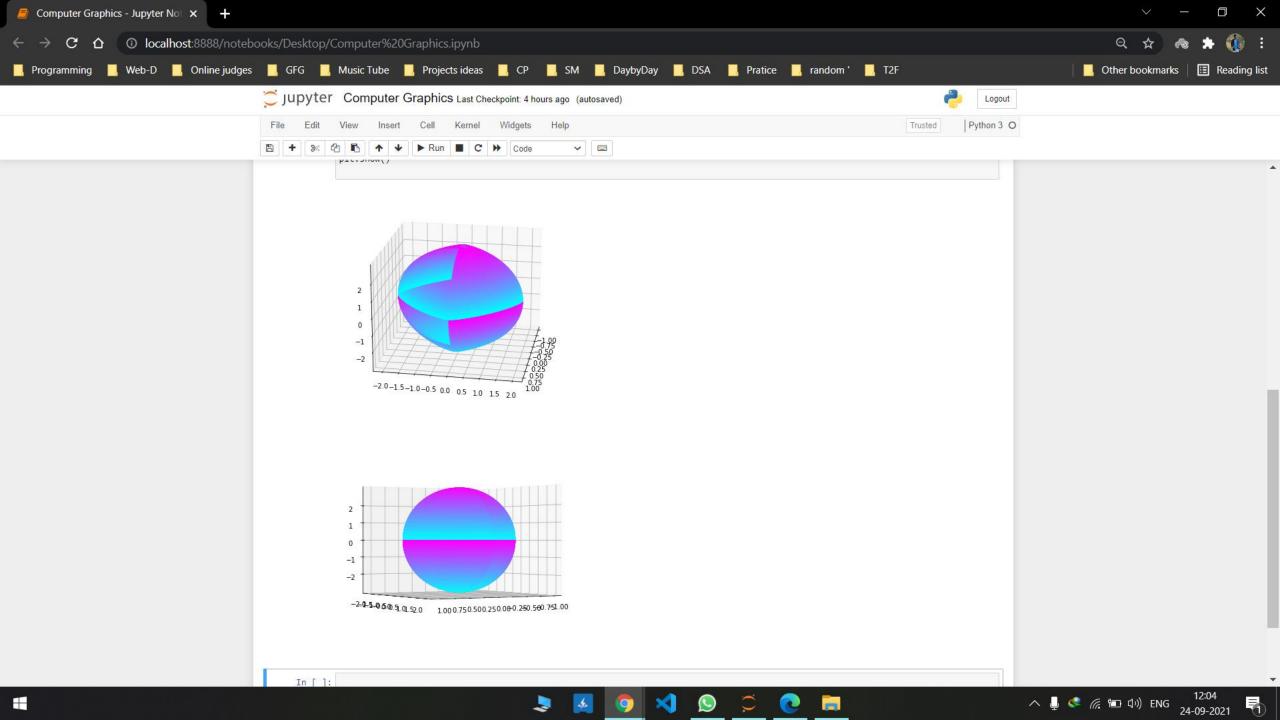
WHEN S1=1 AND S2=0.8



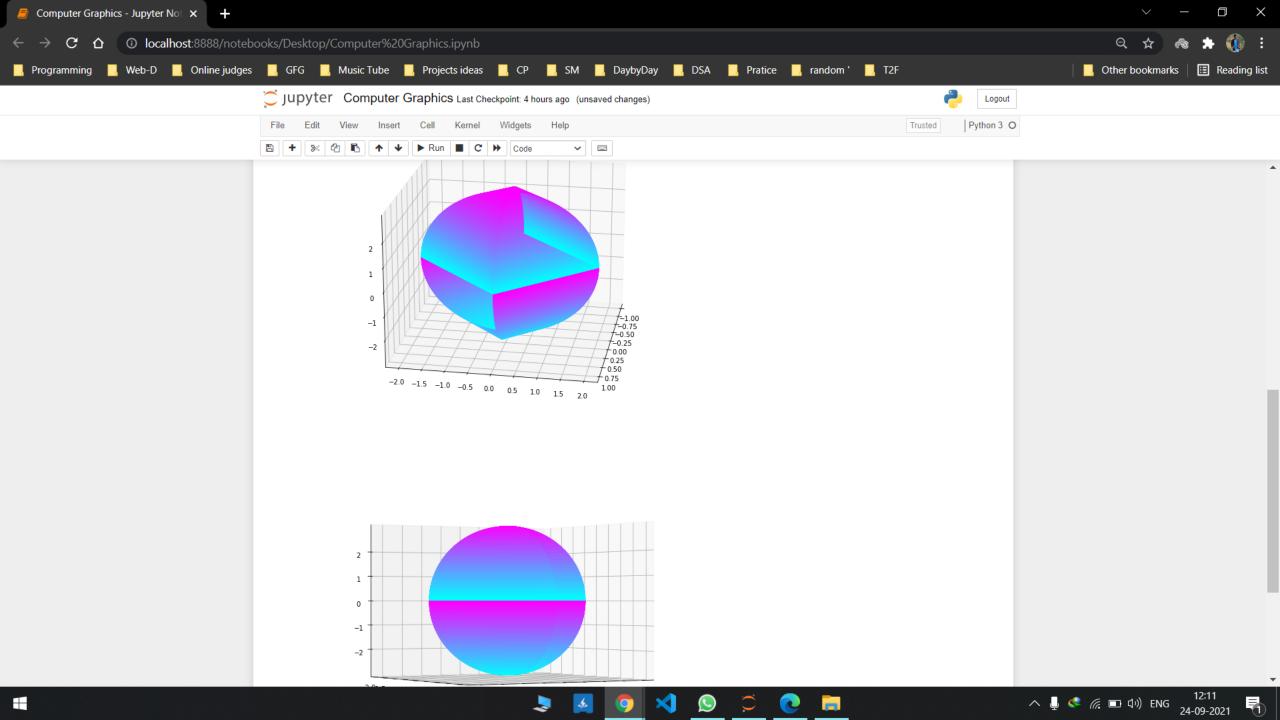
WHEN S1=1 AND S2=1



WHEN S1=1 AND S2=1.5



WHEN S1=1 AND S2=2

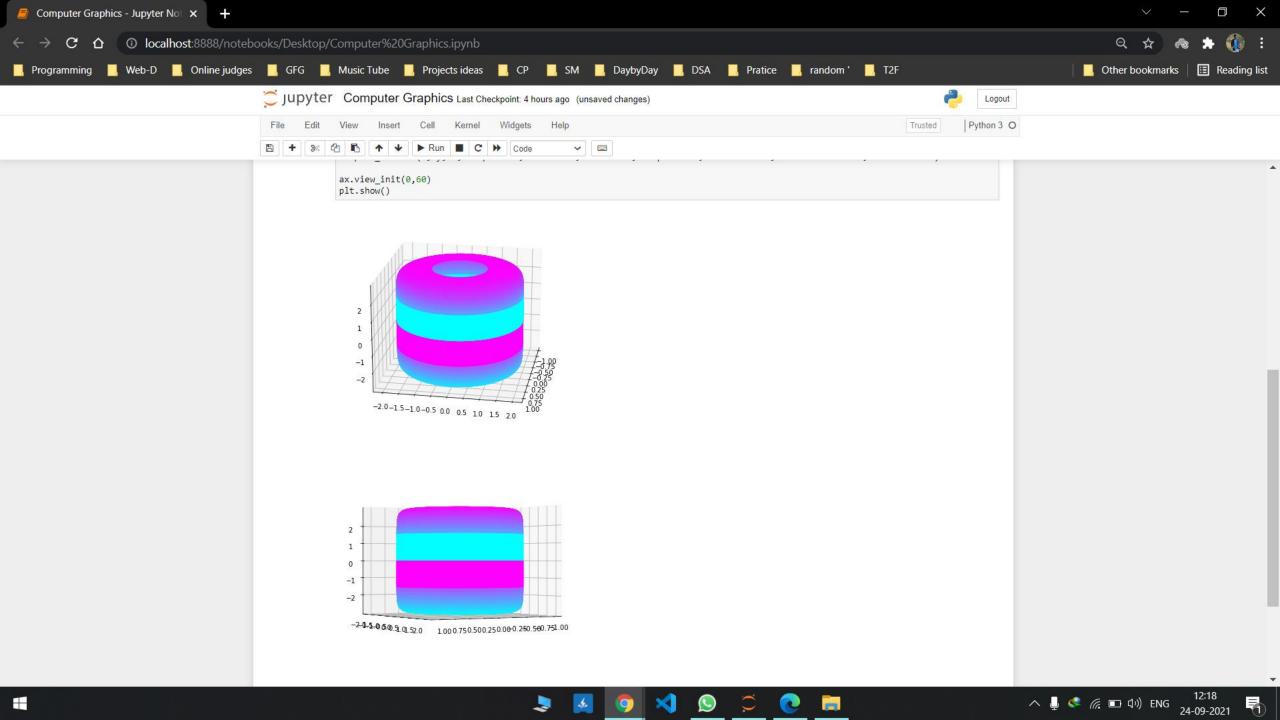


ABOVE ALL GRAPH ARE FOR TASK 2 A AND NOW FROM HERE WE WILL START TASK 2 B

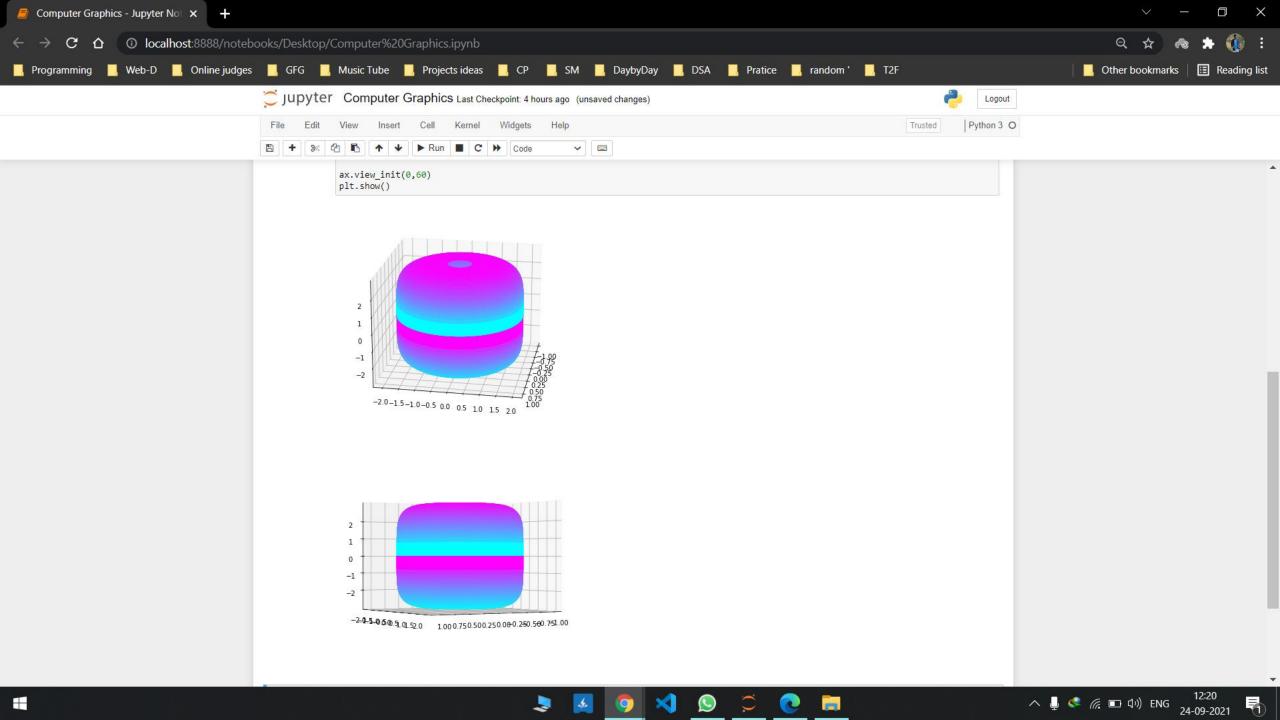
CODE IS ALSO SAME
JUST CHANGING VALUES OF S1 AND S2

IN TASK B S2 = 1 IS FIX AND S1 WILL CHANGE

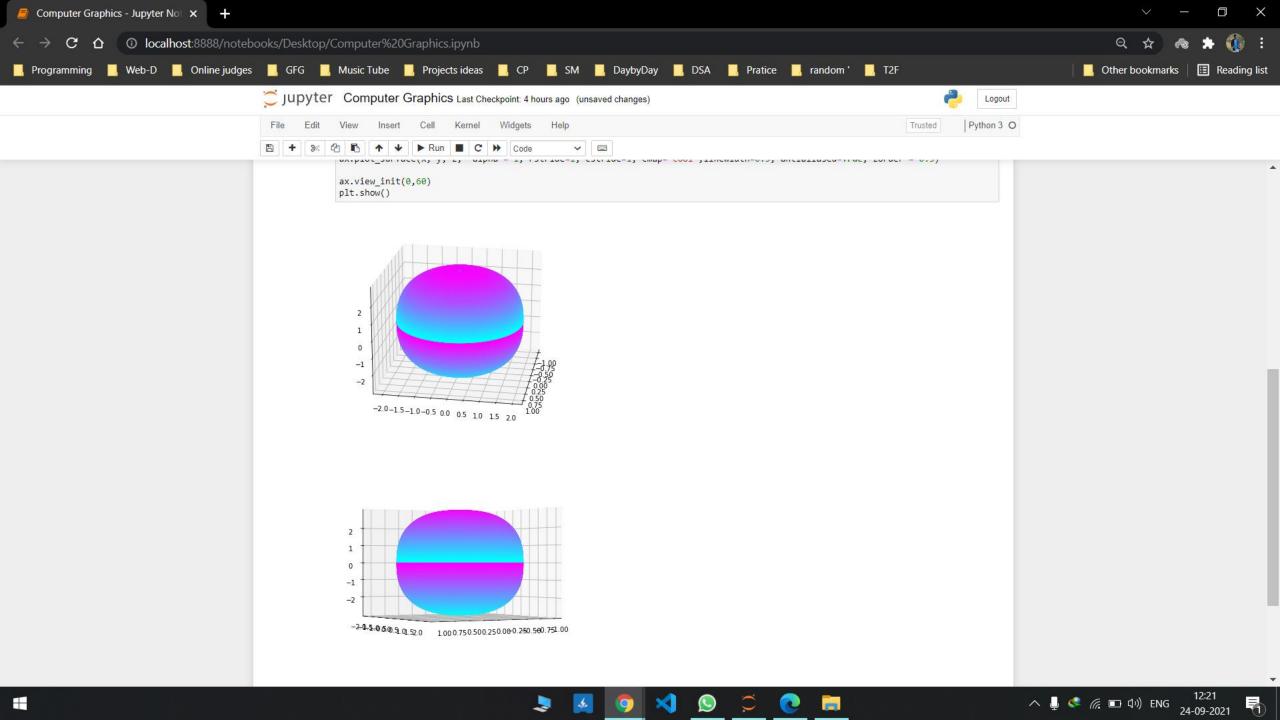
WHEN S1=0.2 AND S2=1



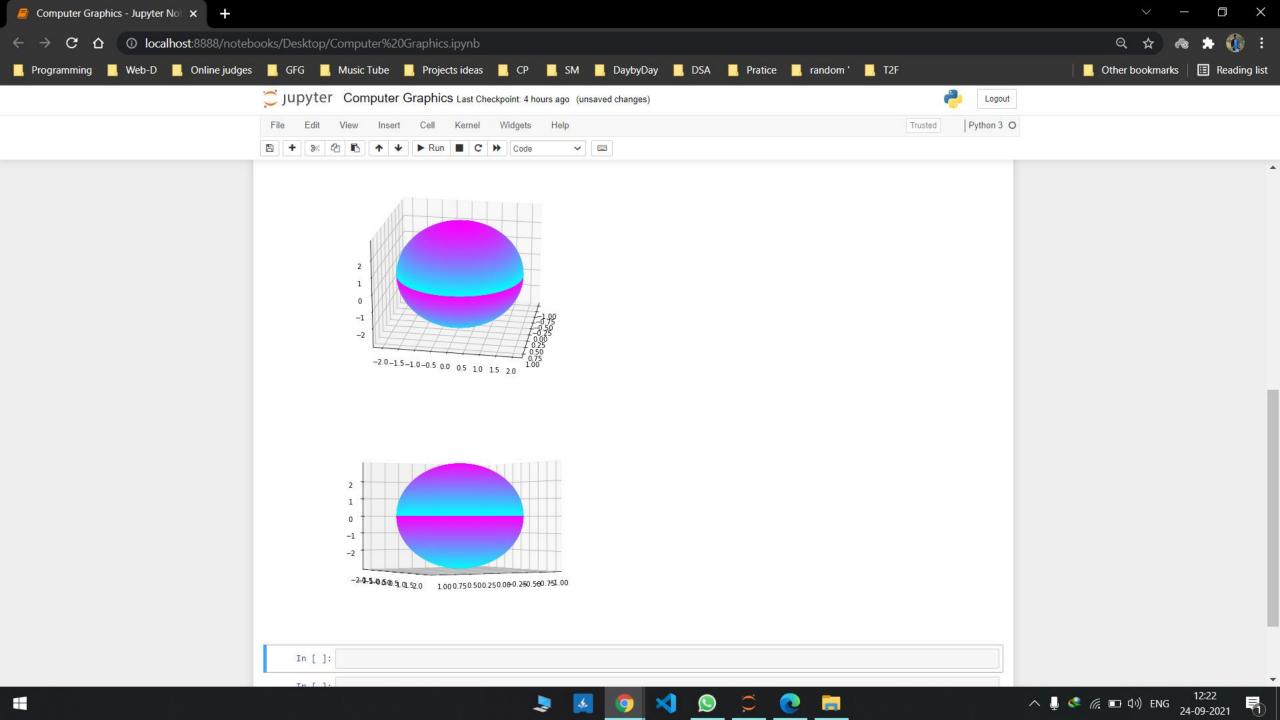
WHEN S1=0.4 AND S2=1



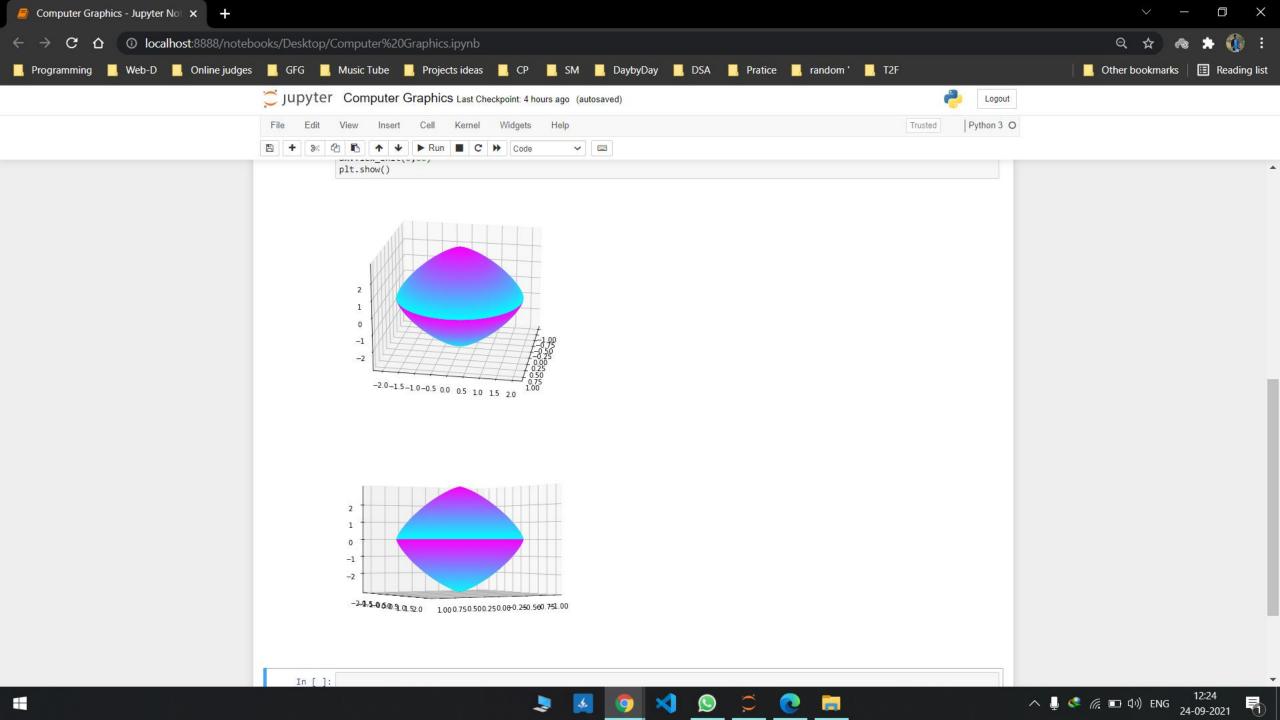
WHEN S1=0.8 AND S2=1



WHEN S1=1 AND S2=1



WHEN S1=1.5 AND S2=1



THESE ARE ALL GRAPHS FOR ALL VALUES

I AM ATTACHING CODE OF ELLIPSOID, TORUS AND SUPER-ELLIPSOID IN CLASSROOM