COL216 Sawath Venus 20196550179 dssignment I area under. In this assignment we have to find Surcesuri the curve by joining lines of (oliyi) (11242) koint Q(3 93). Herrie here the area enclosed in the negative iside is considered on t also area inclosed · @ (Usus Interface on Consoli) - 11 Clocase Enter the No. of Roints (To) "Enter 0 to demunt):" If O is gwin the function terminates and moves out of the loop. but the it asks the n, (1,9) pais: -> "Ouis entered furnition" termenter m < 0 is provided then server message " No. of points cuit be negative Plane provide a kontwi

Onne a proper n'is provided: the console ashs for the (111, 9;1) kain cy = 3" Please enter >1 coordinate of no. 1:" -) "Please enter y condinate of point mo. i;" After getting. a (11:19:1) we compute the are present area through part value (Ni-1, yi-1). Jew Caris 1 Ni-1 2 @ Ni then we gair an error. -) "The 11 coordinates of the point need to be in sorted order in" and ask for 11 coordinate again. 2) after 11; kussing above test we check. yi-1<0 then we move to branch 3) In branch if we get - y: 20 we use compute-I for computing the area of trapezing 4) In branch if we get use and conferte-2
yi>0 we total load of for computing the area very two a triangles

5) of we don't go to branch then

41-170 and we get the come yizo. then use took and compute 2 for computing the onen vsing two drangles 6) Else we get the case. yi->0 yi>0 We use compute-1 for computing the area of trapezing. This loop continues for n times and gets 4. Us. the final area after all computation. -) " The area under the curve for given points:" Test Carso: To test the code we to took revends all the cure 1) 2. (1,1) $\to 0$ 4) 211-10-5 -12 -12

big 5 lity: Also luses (477,-61) (1081, -342)525538.5 (1901, -67)which is the correct answer. (2116, -455)(2651, -218)4 (1,10)(3, -23)195.585 ... (21,7) the Which is (22, -1)answer.