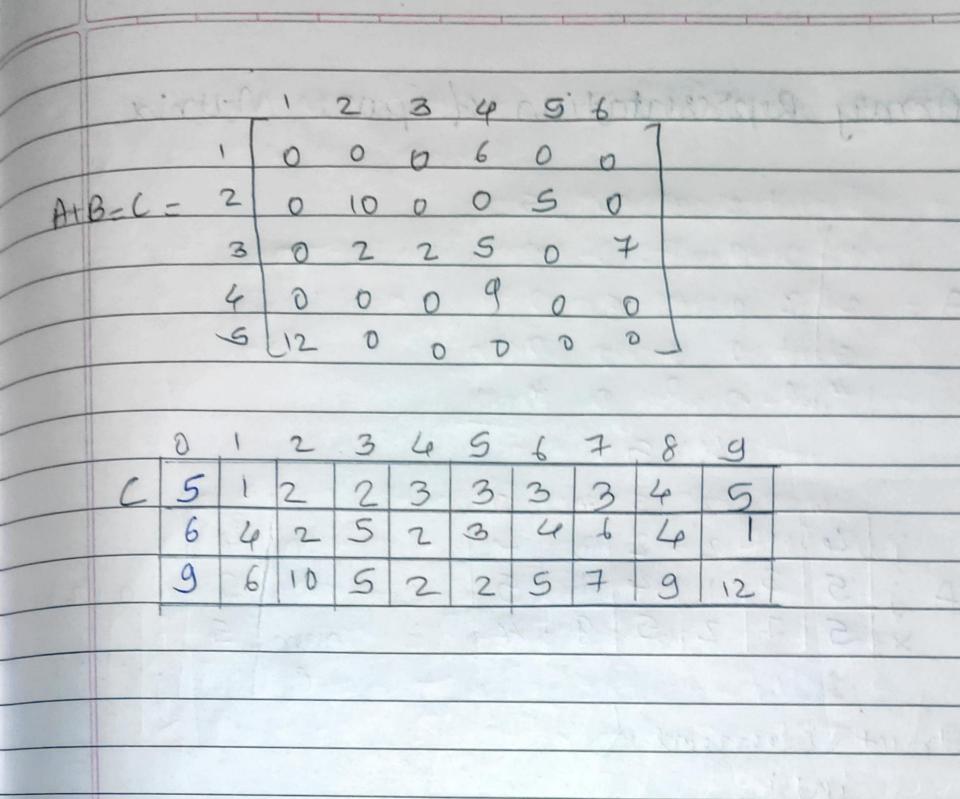
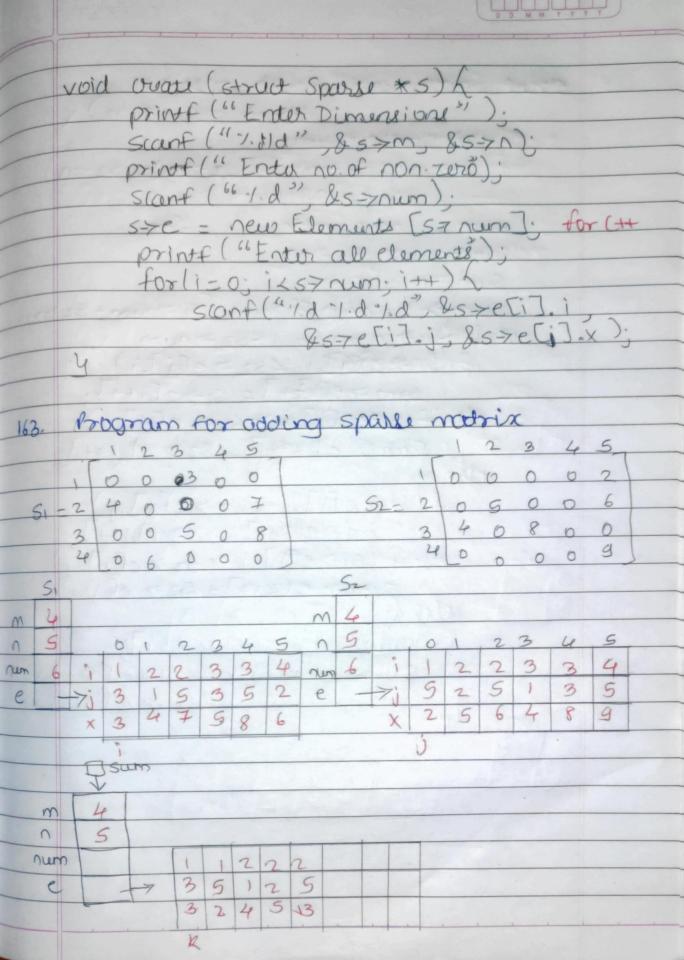
9/1/22			O D M M Y Y Y Y
	Section10 - Sp Rep	well Matrix of	and Polynomial
159.	Sparse Mato	ix Representat	ion
1.	1 0 0 0 2 0 0 8 3 0 0 0 4 4 0 0 5 0 0 0 6 0 0 2 7 0 0 0 8 0 9 0	6000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
*	3- column Representation		
	70W 8 1 2 2 4	Column g 8 3 6 1 3	element 8 3 8 10 4 4 2 6
	8	2 5	.9

& Compressed Sparsed rous A [3,8,10,4,2,6,9,5] // Non- Tero elements IA (0,133,44,5,6,8) Trow elements
012/34/5/67/8 Court in each row
+ previous court JA[8,3,6,1,3,4,2,5] 11 column dement corresponding to mo element 8+9+8=25×2=50 bytes Addition of Spalle Motrices 160. Size must be same of matrices 123456 0 1 2 3 4 5 A 5 1 2 3 3 5 700 6 4 2 2 4 1 col 5 6 7 2 5 4 do 1006600 A=2 0 7 0 0 0 0 3 0 2 0 5 0 0 40000000 12345 100000 0,12,3456 B=2 0 3 0 0 5 2 5 2 3002067 400090 0 0



161. Array Representation of Spaise Matrix Struct Element Struct Sparse (
int m;
int n;
int niem; Struct Element \*e;



Struct Sparse \* add (Struct Sparse \* 51) ( Strut sparse \*Sun; 17 (SI->m!= Sz7m && SZ-7m)= Sz7n return 0.4 sum = new Spalle; Sum-7m = SI-7m; Sum -70 = 51-70; Sum > e = new Element SI-7num + Sz-7num whileliks = num && j < 52 => num) if (S170[]] LS27e[]]i) Sum -> eck+ ] = si> eci++J: else if (SIZECIJ. 17 SZZZECIJ. 1) Sun 7 e[x++]= 527 elj++]; The if (S1-70[i] i < 52->e[j].i) sun7 elx+1= 51-7 e[i++]. else if (517e[1] 7 527e[1]) Sum-7 e[K++]= 527 e[j++] Sum=> e[k]= si= e[i] Sem -> e[x++].x = S1 >e Ci++].x + 52 7 e (j+) -x;

