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-	7	0	0	0	6	0	0	0	0	0	
,	<i>₹</i> 8	0	9	0	0	5	0	0	0	0	

8x9 (72 element)

72×2=1446/16

Sparse Matrix -> In numerical and analysis and scientific combuting, a sparse matrix or sparse may is a matrix in which most of the element are zero.

Method to Stone non-zero clements -

1. Coordinate list (3 column representation

2. compared sparce now

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TO LEAD TO SO	8		5		5	1 2 3

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Compressed Sparse rows:

JA[8,3,6,1,3,4,2,5]

Prent no of element

Space J

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Addition	of	Spance	Matrices
	0		

$$B = 10000000$$

$$200000$$

$$200000$$

$$200000$$

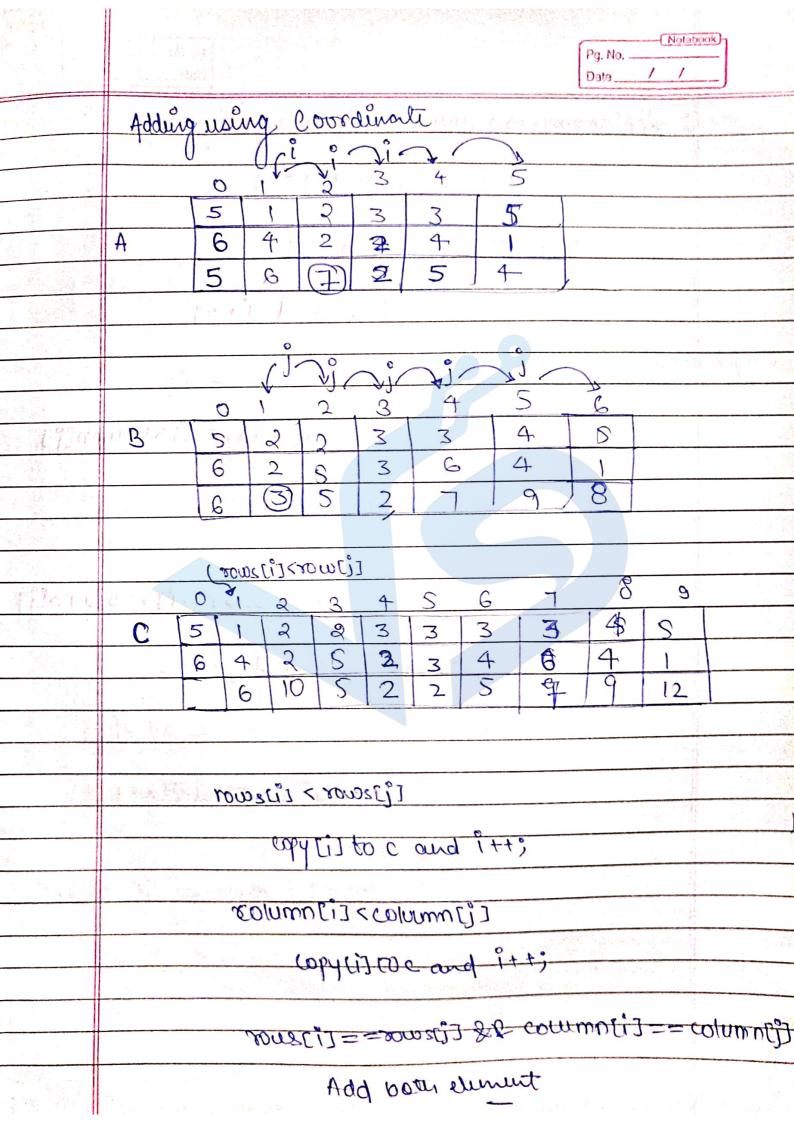
$$3000200$$

$$400000$$

$$58000000$$

			2	3	4	5	6	
	$A+B \rightarrow C = 1$	0	0	0	6	0	0	
	a	0	10	0 0	0	5	0	
7. V.	3	3 × (O:	22	2	S	0	7	
	4	0	0	0	9	0	0	
<u> </u>	5	12	0	0	0	0	0	

Mon-2040 element -3



Jane	Fg. No
	[j]worcij]zwor
	copycji ro c and j++;
	Column [i] > column [j]
	copy (j] to c and j++;
	[i] nomerij z= rowstij & columntij <lolumntij< td=""></lolumntij<>
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	rowski) == rowski] &f column (i) column bi)
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Array Represo	intation of.	Sparse Matrix :-

4xs

dimension and nozero Non-zero elevent = 5 turent 5 9 0 2 1 4 3 2 4 5 7 X

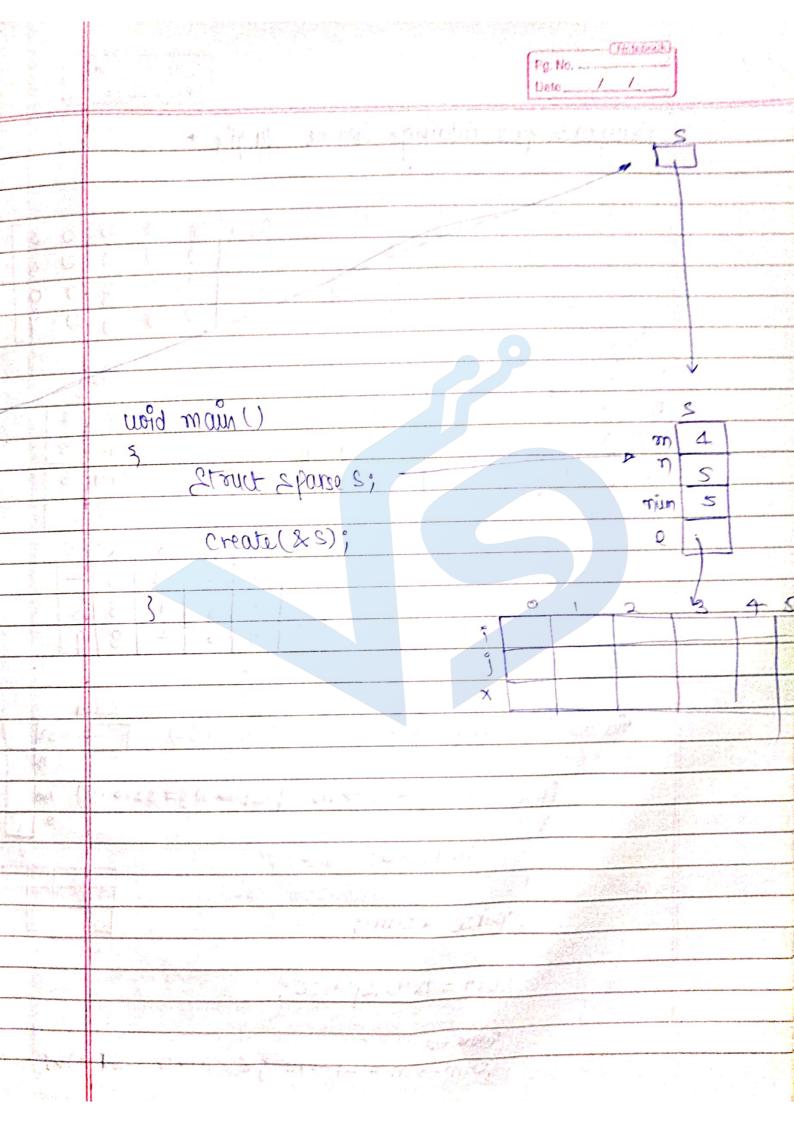
WXN

- How to represent
- How to create
- How to add

2 French Element

int is inti

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	struct Spanse
	3
	int m;
	ent n;
14.	Ent num;
	Strut Element & e; 11 Dynamic Array
	3
A July	may of element
	uoid create (smut sparse *s)
	}
	printf ("Enter Dimensions");
	2canf(40/0d0/0d125>m, 25→n);
	printf ("Enterno. of non-zero");
	2canf ("% d" 2s-num);
	Court (19)
101-	S->e = new Element [s-num];
	Tinary (Common to the state of
	printf ("Enter all elements");
	for curt i=0; issanum ; i++)
	5
	Ecanf("ordred", 25→66,1°1,")
	(30) (1) (1) (1)
	&c→6CJJ.,,
	AND
	& s→eciz.x);
ş1	



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Program for Adding Sparse Matrix -

	1	2	3	4	5		
S1= 1	0	0	3	0	0	S2 =	0
2	4	0	0	0	7		0
3	0	0	5	0	8	1.2	4
4	_ 0	6	0	0	0		0

	THE RESERVE AND PARTY AND PARTY.	the statement described from	and the second second second second second	Charles ber been a
S2 =	0	0	0 0	2
	0	S	0 0	6
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	0	0	0 0	9
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MUM

5

215	1								
M	4		0	1	2	3	4	5	
₩	S		1	2	2	3	3	4	
num	6		3	1	S	3	S	2	
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					6	/	-
	0		2	3	. 4	5	
-	1	2	2	3	3	4	
	S	2	5	1	3	5	
	2	6	6	4	0	0	

void	add/2 mit 2 parse	121,21	nurtha	arso +S2)
3				
	^	-		

if (SI → m ! = S2 → m || SI → n! = S2 → n) Min

Heturn 0;

sparse + sum;

sum = new sparse;

Comes

sum-m=s1 >m; sum-m=s7+n;

```
sum → e = new Element [ si - num + sa - num];
while (< s1 - num k& j < sa - num)
    if (sheri, it say
  if (31→ eli].i < 32→ elj].i)
20m → e[k++] = 21 → e[i++];
      Useif(SI→ecij·i>Sa→ecjj.i)
            2um → e[K++] = 82 → e[j++];
        else
         3
               ([.[[]9. F2 >[.[]]9.]2)]i
                      &um → e[K++] = 21 → e[i++];
                  îf (51.6[i] > 52.6[j].j)
                      sum → e[k++] = sa. e[j++];
                    3
                    926
                      sumsetx++]= s1-e[i++];
                     2x.[++1)== 62=+x.[++x)= 4m2
```

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unt exponent			
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Polynomial Representation

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struct Poly P;

printf(" No. of non-zus observe "truns");

sconf ("".d", & p.n.);

p. t = new ferm [P. n]

printf("Enter Polynomial terms"); for (i=0; i<p.n;i++)

printf ("Perm no v.d", it)

20anf("%.d", &p. tli]. caff

&p. t(i]. Expo);

Polynomial Evaluation -

Etnut Poly P;

wht sum = 0;

for (i=0; i < p. n; i++)

sum+= p. t [i]. weff + Pow(2, p.t Ci]. Exp);

getur sum?

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Polynomial Addition:

$$P(tx) = 5x^4 + 3x^2 + 5$$

2

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323	P.	3.t[k#].	Exp=P1.tc	iJ.Exp;	
			U I-V		
		30 t [K++]. coeff = P	1. t[i++].ce P2. t[j++].	reft +
154			9	P2: t6++J=	coeff;
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