



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35.

An Autonomous Institution

COURSE NAME : 23CST101 PROBLEM SOLVING AND C PROGRAMMING

I YEAR/ I SEMESTER

UNIT-III ARRAYS AND STRINGS

Topic: Matrix Addition & Subtraction

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Matrix Addition

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[3][3],b[3][3],c[3][3];
int i,j;
clrscr();
printf("Enter the elements of matrix A\n");
for(i=0;i<3;i++)
{
for(j=0;j<3;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("Enter the elements of matrix B\n");
for(i=0;i<3;i++)
```



Matrix Addition



```
{  
for(j=0;j<3;j++)  
{  
scanf("%d",&b[i][j]);  
}  
}  
for(i=0;i<3;i++)  
{  
for(j=0;j<3;j++)  
{  
c[i][j]=a[i][j]+b[i][j];  
}  
}  
}
```



Matrix Addition



```
printf("The Addition of matrix A and B\n");
```

```
for(i=0;i<3;i++)  
{  
for(j=0;j<3;j++)  
{  
printf("%d\t",c[i][j]);  
}  
printf("\n");  
getch();  
}
```



Matrix Addition

Output:

Enter the elements of matrix A

1	2	1
1	2	1
1	2	1

Enter the elements of matrix B

1	2	1
1	2	1
1	2	1

The Addition of matrix A and B

2	4	2
2	4	2
2	4	2



Thank You!