

```
/** Program to Add Two Matrices */
```

```
#include <stdio.h>
```

```
main()
```

```
{
```

```
    int a[10][10], b[10][10], c[10][10], i, j, row, col;  
    printf("\nEnter number of rows and columns: ");  
    scanf("%d %d", &row, &col);
```

```
    printf("\nEnter elements of Array A:\n");  
    for (i=0; i<row; i++)  
        for (j=0; j<col; j++)  
            scanf("%d", &a[i][j]);
```

```
    printf("\nEnter elements of Array B:\n");  
    for (i=0; i<row; i++)  
        for (j=0; j<col; j++)  
            scanf("%d", &b[i][j]);
```

```
    printf("\nElements of Matrix A:\n\n");  
    for (i=0; i<row; i++)  
    {  
        for (j=0; j<col; j++)  
            printf("\t%d", a[i][j]);  
        printf("\n\n");  
    }
```

```
    printf("\nElements of Matrix B:\n\n");  
    for (i=0; i<row; i++)  
    {  
        for (j=0; j<col; j++)  
            printf("\t%d", b[i][j]);  
        printf("\n\n");  
    }
```

```
for (i=0; i<row; i++)
    for (j=0; j<col; j++)
        c[i][j] = a[i][j] + b[i][j];

printf("\nMatrix Addition is:\n\n");
for (i=0; i<row; i++)
{
    for (j=0; j<col; j++)
        printf("\t%d", c[i][j]);
    printf("\n");
}

getch();
}
```