

\*Pgm to add 2 matrix of order 2x2 using multidimensional Array \*

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

```
int main ()
```

```
{ float a[2][2], b[2][2], c[2][2];
```

```
int i, j;
```

```
printf("Enter the elements of 1st matrix\n");
```

```
for(i=0; i<2; i++)
```

```
{ for(j=0; j<2; j++)
```

```
{ printf("Enter a[i].d\i.d", a[i], j);
```

```
scanf("%f", &a[i][j]);
```

```
}}
```

```
printf("Enter the elements of 2 matrix");
```

```
for(i=0; i<2; i++)
```

```
{ for(j=0; j<2; j++)
```

```
{ printf("Enter b[i].d\i.d", i+1, j);
```

```
scanf("%f", &b[i][j]);
```

```
for(i=0; i<2; i++)
```

```
{ for(j=0; j<2; j++)
```

```
{ c[i][j] = a[i][j] + b[i][j];
```

```
}}
```

```
printf("Sum of matrix :");
```

```
for(i=0; i<2; i++)
```

```
{ for(j=0; j<2; j++)
```

```
{ printf("%f\t", c[i][j]);
```

```
if(j==1)
```

```
printf("\n");
```

```
}}
```

```
return 0;
```

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Outlet:-

Enter a 1 1: 2;

a 1 2: 0.5;

a 2 1: -1;

a 2 2: 2;

Enter elements of 2nd matrix

Enter b 1 1: 0.2;

b 1 2: 0;

b 2 1: 0.23

b 2 2: 2.3

Sum of matrix

2.2 0.5

-0.9 2.50