#include<stdio.h>

void main()

{ int a[3][3],b[3][3],c[3][3],i,j,k,sum;

printf("enter matrix a:");

for(i=0;i<3;i++)

{ for(j=0;j<3;j++)

{ scanf("%d",&a[i][j]);

}

}

printf("enter matrix b:");

for(i=0;i<3;i++)

{ for(j=0;j<3;j++)

{scanf("%d",&b[i][j]);

}}

printf("result a+b:\n");

for(i=0;i<3;i++)

{ for(j=0;j<3;j++)

{ printf("%d\t",a[i][j]+b[i][j]);

} printf("\n");

}

printf("\nMultiplying two matrices...");

for(i=0; i<3; i++)

{

for(j=0; j<3; j++)

{

sum=0;

for(k=0; k<3; k++)

sum = sum + a[i][k] \* b[k][j];

c[i][j] = sum;

}

}

printf("\nMultiplication result of the two given Matrix is: \n");

for(i=0; i<3; i++)

{

for(j=0; j<3; j++)

printf("%d\t", c[i][j]);

printf("\n");

}

}

Output:

1

23

1

12

enter matrix b:23

123

1

3

5

6

3

2

4

result a+b:

24 124 3

6 9 7

26 3 16

Multiplying two matrices...

Multiplication result of the two given Matrix is:

32 132 15

84 391 31

568 2858 77