* **2D Array Multiplication**

**Source Code:**

#include<stdio.h>

void main()

{ int size[4];

printf("Enter the sizes of the arrays.In row,column form:\n");

scanf("%d %d %d %d",&size[0],&size[1],&size[2],&size[3]);

if(size[1]==size[2])

{

int a[size[0]][size[1]];

int b[size[2]][size[3]];

printf("Enter the elements of the first array:\n");

for (int i=0;i<size[0];i++){

for(int j=0;j<size[1];j++)

{

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

}

}

printf("Enter the elements of the second array:\n");

for (int i=0;i<size[2];i++){

for(int j=0;j<size[3];j++)

{

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

}

}

int res[size[0]][size[3]];

for(int i=0;i<size[0];i++)

{for(int j=0;j<size[1];j++)

{ res[i][j]=0;

for(int l=0;l<size[1];l++)

{

res[i][j]+=a[i][l]\*b[l][j];

}

}}

printf("Output:\n");

for (int i=0;i<size[0];i++){

for(int j=0;j<size[3];j++)

{

printf("%d",res[i][j]);

printf(" ");

}

printf("\n");

}

}

else

{

printf("Multiplication can't be done");}}

**Output:**

