mport java.util.Scanner;
class Multiplication2{
static void display(int m,int n,int arr[][]){
$for(int i=0;i< m;i++)\{$
for(int j=0;j< n;j++)
System.out.print(arr[i][j]+ " ");
System.out.println();
}
}
<pre>public static void main(String args[]){</pre>
Scanner sc = new Scanner(System.in);
System.out.println("Enter the dimension of MATRIX_1:");
<pre>int m1=sc.nextInt();</pre>
<pre>int n1=sc.nextInt();</pre>
System.out.println("Enter the dimension of MATRIX_2:");
int m2=sc.nextInt();
int n2=sc.nextInt();
$if(n1!=m2)$ {
System.out.println("Multiplication not possible");
return;
}
int A[][] = new int[m1][n1];
int $B[][] = new int[m2][n2];$
int $C[][] = new int[m1][n2];$
System.out.println("Enter MATRIX_1");
for(int i=0;i< m1;i++)
for(int j=0; j< n1; j++)
A[i][j]=sc.nextInt();

```
System.out.println("Enter MATRIX_2");
for(int i=0;i<m2;i++)
                                               23
  for(int j=0; j< n2; j++)
    B[i][j]=sc.nextInt();
                                               3 2
for(int i=0;i<m1;i++)
  for(int j=0; j< n2; j++){
                                               1 2 1
    C[i][j]=0;
                                               2 1 2
    for(int k=0;k<n1;k++)
       C[i][j] += A[i][k] *B[k][j];
                                               0 3
                                               3 1
System.out.println("MATRIX_1");
                                               2 2
display(m1,n1,A);
System.out.println("MATRIX_2");
                                               1 2 1
display(m2,n2,B);
                                               2 1 2
System.out.println("RESULTANT MATRIX");
display(m1,n2,C);
                                               0 3
                                               3 1
                                               2 2
                                               8 7
                                               7 11
```

```
Enter the dimension of MATRIX_1:
Enter the dimension of MATRIX_2:
Enter MATRIX_1
Enter MATRIX_2
MATRIX_1
MATRIX_2
RESULTANT MATRIX
```