

Matrix Multiplication

```
import java.io.*;
class matrixmultiplication
{
    public static void main(String a[])throws IOException
    {
        int i,j,k;
        int b[][]=new int [2][2];
        int c[][]=new int [2][2];
        int d[][]=new int [2][2];
        System.out.println("Enter 4 elements");

        for(i=0;i<2;i++)
        {
            for(j=0;j<2;j++)
            {
                DataInputStream in= new
DataInputStream(System.in);
                b[i][j]=Integer.parseInt(in.readLine());
            }
        }
        System.out.println("Enter 4 elements");

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

```
        {
            DataInputStream ins= new
DataInputStream(System.in);

            c[i][j]=Integer.parseInt(ins.readLine());
        }
    }
System.out.println("result");
for(i=0;i<2;i++)
    {
        for(j=0;j<2;j++)
            {
                for(k=0;k<2;k++)
                    {
                        d[i][j]+=(b[i][k]*c[k][j]);
                    }
                System.out.print(d[i][j]+ " ");
                d[i][j]=0;
            }
        System.out.println("");
    }
}
```