```
import java.util.Scanner;
public class MatricsMultiplication
{
   public static void main(String[] args)
   {
      int i, j, k, rowF, rowS, colF, colS;
      int first[][] = new int[10][10];
      int second[][] = new int[10][10];
      int product[][] = new int[10][10];
      Scanner scanner = new Scanner(System.in);
      System.out.println("Enter Rows and Cols of First Matrix");
      rowF = scanner.nextInt();
      colF = scanner.nextInt();
      System.out.println("Enter Elements of First Matrix");
      // Input first matrix from user
      for (i = 0; i < rowF; i++) {
         for (j = 0; j < colF; j++) {
            first[i][j] = scanner.nextInt();
         }
      }
      System.out.println("Enter Rows and Cols of Second Matrix");
      rowS = scanner.nextInt();
      colS = scanner.nextInt();
      System.out.println("Enter Elements of Second Matrix");
      // Input second matrix from user
      for (i = 0; i < rowS; i++) {
         for (j = 0; j < colS; j++) {
            second[i][j] = scanner.nextInt();
         }
      }
      // Multiplying two matrices
      for (i = 0; i < rowF; i++) {
         for (j = 0; j < colF; j++) {
            for (k = 0; k < colS; k++) {
               product[i][j] += first[i][k] * second[k][j];
            }
         }
      }
      // Printing Product Matrix
      System.out.println("Product Matrix");
      System.out.println(".............");
      for (i = 0; i < rowF; i++) {
         for (j = 0; j < colS; j++) {
            System.out.print(product[i][j] + " ");
         }
         System.out.print("\n");
      }
   }
}
```