Write a program in Java to multiply two matrices

Program:

public class MultiplyMatrices

{

public static void main(String[] args)

{

int r1 = 2, c1 = 3;

int r2 = 3, c2 = 2;

int[][] firstMatrix = { {3, -2, 5}, {3, 0, 4} };

int[][] secondMatrix = { {2, 3}, {-9, 0}, {0, 4} };

int[][] product = multiplyMatrices(firstMatrix, secondMatrix, r1, c1, c2);

displayProduct(product);

}

public static int[][] multiplyMatrices(int[][] firstMatrix, int[][] secondMatrix, int r1, int c1, int c2)

{

int[][] product = new int[r1][c2];

for(int i = 0; i < r1; i++)

{

for (int j = 0; j < c2; j++)

{

for (int k = 0; k < c1; k++)

{

product[i][j] += firstMatrix[i][k] \* secondMatrix[k][j];

}

}

}

return product;

}

public static void displayProduct(int[][] product)

{

System.out.println("Product of two matrices is: ");

for(int[] row : product)

{

for (int column : row)

{

System.out.print(column + " ");

}

System.out.println();

}

}

}

Output:

24 29

6 25