Program4: Multiply two matrices

```
package mounika4;
      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++)</pre>
      {
                                    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();
                        }
      }
```

