**Assisted Practice: 4.4 Matrix**

This section will guide you to:

* Write a program in Java to multiply two matrices
* Use Eclipse (the popular text editor for Java programs)
* Push code to Git

This lab has three subsections, namely:

* + 1. Creating a new project in Eclipse
    2. Writing the program in Java to multiply two matrices
    3. Pushing the code to your GitHub repositories

**1.Writing the program in Java to multiply two matrices**

public class MatrixMultiplicationExample{

public static void main(String args[]){

//creating two matrices

int a[][]={{1,1,1},{2,2,2},{3,3,3}};

int b[][]={{1,1,1},{2,2,2},{3,3,3}};

//creating another matrix to store the multiplication of two matrices

int c[][]=new int[3][3];  //3 rows and 3 columns

//multiplying and printing multiplication of 2 matrices

for(int i=0;i<3;i++){

for(int j=0;j<3;j++){

c[i][j]=0;

for(int k=0;k<3;k++)

{

c[i][j]+=a[i][k]\*b[k][j];

}//end of k loop

System.out.print(c[i][j]+" ");  //printing matrix element

}//end of j loop

System.out.println();//new line

}

}}

**Output:**

6 6 6

12 12 12

18 18 18