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**BSCS-5A**

**#131818**

**AP LAB 1**

**Introduction:** Create a Matrix Computer which allows the user to evaluate a matrix equation and get the ultimate results.

**Approach & Design:** I have used eclipse tool to edit java code. I have made a class for matrix containing rows,cols and name of the matrix as datamembers. The rest are the various functions for operating on matrices. In the main, I have taken inputs and also, has all the conditionals for equation analysis.

**How to run:** First, user will be asked to enter a name for first matrix, number of rows and columns, and then the elements. It will show the array elements in matrix form. Same happens for a second matrix. Then user has to enter an equation keeping in mind that he cant use the same matrix for another operation and ! is for transpose, ^ for inverse and x for scalar mult. The output will show the calculations in matrix forms where the last matrix is the result of the equation entered.

**Link to gihub repo:** https://github.com/mujtaba-faizi/Matrix

**Application Screenshots:-**









