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| Reg # 342 |
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| Project documentation |

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| hamid  2/19/2015 |

In Matrix module there is 3 functions

1. **public static int[][] multiply\_f(int a[][], int b[][])**

**arguments :** it take two matrix compatible for multiplication

functionality : multiply two matrix and then return resultant matrix by using efficient algorithm.

1. **public static int[][] add\_f(int a[][], int b[][])**

**arguments :** it take two matrix of same size

functionality : Add two matrix and then return resultant matrix by using efficient algorithm.

1. **public static int[][] sub\_f(int a[][], int b[][])**

**arguments :** it take two matrix of same size

functionality : Subtract two matrix and then return resultant matrix by using efficient algorithm.

In Test Unit Module there is file handling

first of all is read line by line by using buffer reader

**BufferedReader bufferReader = new BufferedReader(inputFile);**

Then tokenize line with respect to “ ” space with function

**StringTokenizer st = new StringTokenizer(line);**

Then parse string to integer by using function

**int y = Integer.parseInt(st.nextToken());**

then assigning values to matrix and implement test unit logic which was given in lab task