**Chapter 8**

**Multi-dimensional array notes**

***A Multi-dimensional arrays are arrays of arrays***

They only die if you run out of memory

Or you have reached the end of the array

***Motivations***

Double [] [] \*name of variable\* = {

//this array contains 7 sub arrays

{// each array has 7 elements},

{{// each array has 7 elements},

// variable goes here

};

**// declare array ref var**

datatype [] [] refVar

**//create array and assign its reference to variable**

refVar = new Datatype[10][10];

**//combine declaration**

**Two Dimension Array inllustrations**

Matrix = new int [5] [5]

Matrix =[2] [1]=7

Int [] [] array ={

3 rows

2 columns

}

Rows go first

Columns go second