Elements of a Simplar data type. Adolitionally.
The Element of a array we stored in Contigons
memory to cation.

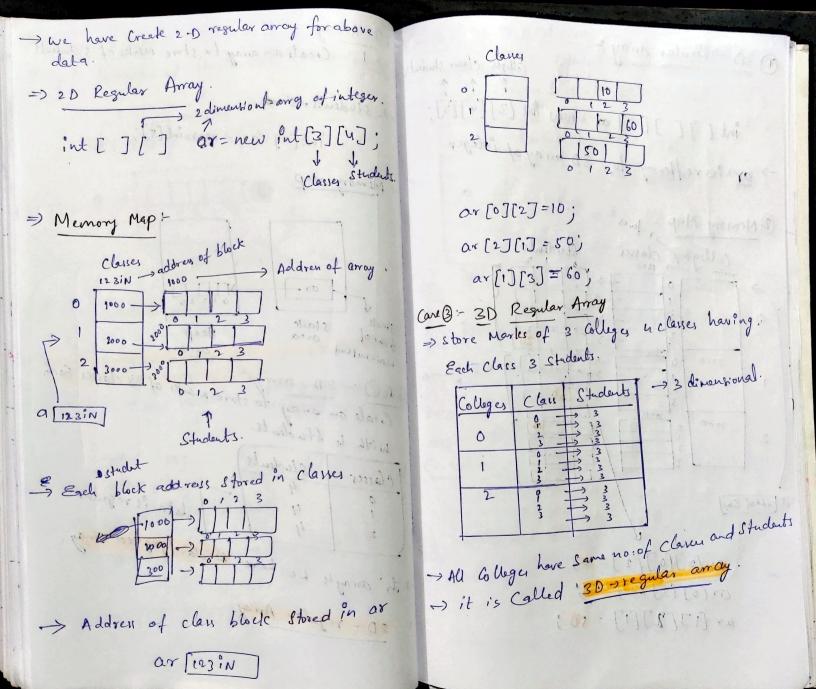
The Why array? 1) Array 1- Array is an object Which Contains Donvinient /Traditional way to store data is to Create Vaniable not good approach to store a large volume of dato. lorge volume of clata Stored in Single Variable (Array) (i) away is included based blata structure to store @ what is array? large Volume of clata using Single Variable hance. (ii) Array can Store Homogenius type data. ii) Array in java treated as object. Array in Jara.

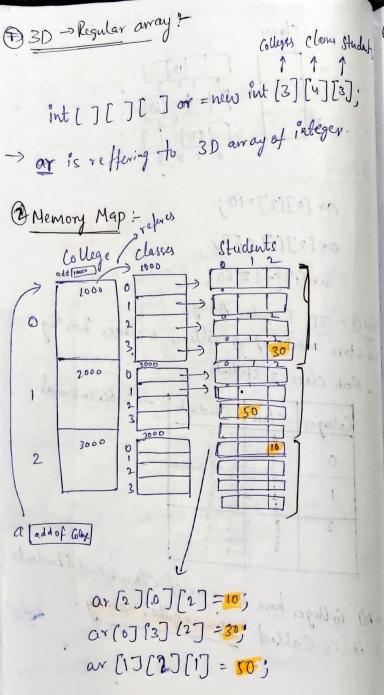
Lomemory stored in heap area.

Type of data

int[] a = new int[5]; >[] = away = Collection of heap area a is away of integer data.

(PV) Homogenius Data 1away is Collection of Similar data (01) Homogenous Olase-1: - Create an away to store Marks of 5 students array of inteser Data. ... Students = 5 -> int[] a = new int[s]; int[] ar = new int[5]; - Memory map. al Brown (10) = Marinte porce to weekly \$30 10 - Stadents manks stade -) a is away of integer. a is reference Vantable. Heap area it is referring among of integer. Create an array to store marks of 3 classes Each Case D - 2D - array. int[] a = new int[10]; 0123456789 Mento With 4 Students. a[2] = 10; Classes O Students 0[8] = 20; data is regular Il to acress data in away. \$-0.P (a[2]); → fint data in 2) do away is he have Regular I gag ged eway. 2D - regular Array. MICHINO





Cove (9: 2D Togged array; 3 classes with different number of Students -> irregular data so it is called 2D-Jagged array. Students. -> 2D-Jaggld array = new int[3][]; array of Jenth clay (or [o] = new int [5]; comy " 14 clas ar[1] = new int [3]; ang 11 2 nd clas - ar [2] = new int [4]; Case (3) - 3D Tagged array students. classes College

3D array of integer. colleges Care BL 2000 College and class are same in solo J'int()[][] ar = new int (3)[][7]; by different no of Students in Classe. int [][][] ax = new int [3][4][]; [ar [0] = new int[2][]; classes or [1] = new int [4][]; , ar (o)[o] = new int[u]; coll Claustu → ar [o][i]= new int[2]; ar[2] = new int [3][]; 3 3 soth bollege and 3 noth cales Stuckts [or[o][o] = new int[u]; =) for accessing Elements in 3D away -Students / ar[0][1] = new int[2]; ar [o][i][o] - Indens ar[1][0] = new ; ut[3]; ar (1)[1] = new int [1]; ar[17[0] = nov int[5]; > 1D, 2D, 3D => Regular } ar [1][3] = new int[2]; 20,30 => Tagged. (= QP > Multidimentional array. ar (2) [0] = new int [3] ar(2] [1] = new int[4]; ar[2] [2] = hew int [2];