DOCUMENTATION
Laboratory Activity 4

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1-BSEMC-.1
BS Computer Science

December 15, 2021

2 Dimensional Arrays Activities

Cabinet2

Cabinet2.java | Cabinet2v2.java

```
1  package labAct42dArrays;
2
3  public class Cabinet2
4  {
5     public static void main(String[] args)
6     {
7        String[][] cabinet2 = {{"gadgets ","pliers"},{"documnets", "CDs"}, {"manuals", "candies"}};
8        int layer, sub;
9
10       for (layer=0; layer<cabinet2.length; layer++)
11       {
12          for (sub=0; sub<cabinet2[layer].length; sub++)
13          {
14             System.out.println("Layer " + layer + " and " + "sub "+sub + " has " + cabinet2[layer][sub]);
15          }
16          System.out.println();
17       }
18    }
19 }
20
```

Console

```
<terminated> Cabinet2 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe  (15 Dec 2021, 1:12:03 pm – 1:12:05 pm)
Layer 0 and sub 0 has gadgets
Layer 0 and sub 1 has pliers

Layer 1 and sub 0 has documnets
Layer 1 and sub 1 has CDs

Layer 2 and sub 0 has manuals
Layer 2 and sub 1 has candies
```

Video Link:
https://drive.google.com/file/d/15Wgo4HIW3LdF-KP9y6ONYzPEmUAs0N7e/view?usp=sharing

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Cabinet2 2nd Version

Cabinet2.java | Cabinet2v2.java | GradeReport.java

```
1  package labAct42dArrays;
2
3  public class Cabinet2v2
4  {
5     public static void main(String[] args)
6     {
7        String[][] cabinet2 = new String[3][2];
8        cabinet2[0][0] = "gadgets";
9        cabinet2[0][1] = "pliers";
10       cabinet2[1][0] = "documents";
11       cabinet2[1][1] = "CDs";
12       cabinet2[2][0] = "manuals";
13       cabinet2[2][1] = "candies";
14
15       int layer, sub;
16
17       for (layer=0; layer<cabinet2.length; layer++)
18       {
19          for (sub=0; sub<cabinet2[layer].length; sub++)
20          {
21             System.out.println("Layer " + layer + " and " + "sub "+sub + " has " + cabinet2[layer][sub]);
22          }
23          System.out.println();
24       }
25    }
26 }
27
```

Console

```
<terminated> Cabinet2v2 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe  (15 Dec 2021, 1:19:07 pm – 1:19:07 pm)
Layer 0 and sub 0 has gadgets
Layer 0 and sub 1 has pliers

Layer 1 and sub 0 has documents
Layer 1 and sub 1 has CDs

Layer 2 and sub 0 has manuals
Layer 2 and sub 1 has candies
```

Video Link:

https://drive.google.com/file/d/1twZBMRHiyOSN0JOJyZuUjpfXyEkZgIOp/view?usp=sharing

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GradeReport

Cabinet2.java | Cabinet2v2.java | GradeReport.java

```
1  package labAct42dArrays;
2  import java.util.Scanner;
3  public class GradeReport
4  {
5     public static void main(String[] args)
6     {
7        Scanner input = new Scanner(System.in);
8        int numStud = 0;
9
10       String[] subject = {"Physics", "Algebra", "Programming"};
11
12       System.out.print("Enter the number of students to process: ");
13       numStud = input.nextInt();
14
15       String[] studName = new String[numStud];
16       double[][] grade = new double[numStud][3];
17       double[] totalGrade = new double[numStud];
18
19       // Data Entry
20       for (int gRow = 0; gRow < numStud; gRow++)
21       {
22          System.out.print("\nEnter student name: ");
23          studName[gRow] = input.next();
24          for (int gCol = 0; gCol < 3; gCol++)
25          {
26             System.out.print("Enter a grade in " + subject[gCol] + ": ");
27             grade[gRow] [gCol] = input.nextDouble();
28
29             totalGrade[gRow] += grade[gRow][gCol];
30          }
31       }
32       //Display Report
33       System.out.println("\nGrade Report");
34       System.out.println("----------------");
35       for (int dispRow = 0; dispRow < numStud; dispRow++)
36       {
37          System.out.println("\nStudent name: " + studName[dispRow]);
38
39          for (int dispCol = 0; dispCol < 3; dispCol++ )
40          {
41             System.out.println("Grade in " + subject[dispCol] + " is " + grade[dispRow][dispCol]);
42
43          }
44          System.out.println("Average grade is: " + totalGrade[dispRow]/3.0);
45       }
46    }
47 }
48
```

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