CSE1007 Java Programming Theory A2+TAA2 on 09-08-2021

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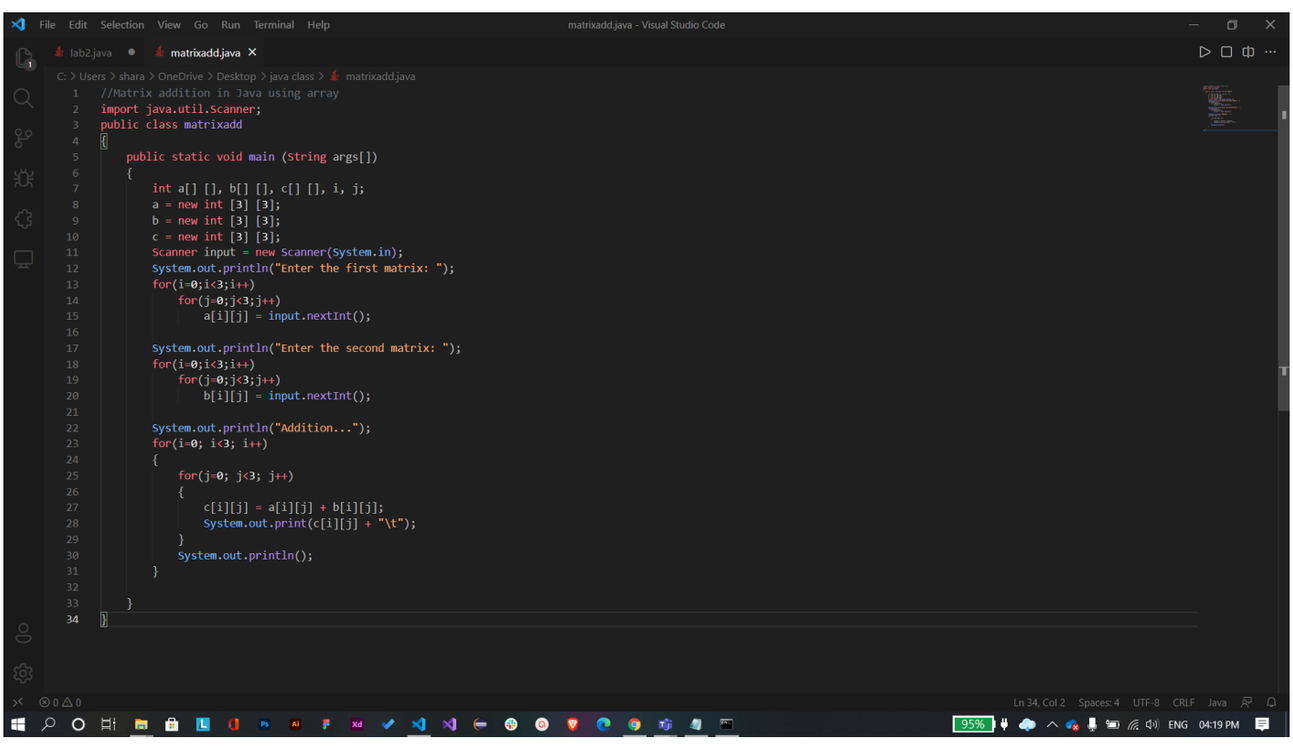
Q. Write a java code to perform matrix addition using array.

```java
//Matrix addition in Java using array
import java.util.Scanner;
public class matrixadd
{
    public static void main (String args[])
    {
        int a[] [], b[] [], c[] [], i, j;
        a = new int [3] [3];
        b = new int [3] [3];
        c = new int [3] [3];
        Scanner input = new Scanner(System.in);
        System.out.println("Enter the first matrix: ");
        for(i=0;i<3;i++)
            for(j=0;j<3;j++)
                a[i][j] = input.nextInt();

        System.out.println("Enter the second matrix: ");
        for(i=0;i<3;i++)
            for(j=0;j<3;j++)
                b[i][j] = input.nextInt();

        System.out.println("Addition...");
        for(i=0; i<3; i++)
        {
            for(j=0; j<3; j++)
            {
                c[i][j] = a[i][j] + b[i][j];
                System.out.print(c[i][j] + "\t");
            }
            System.out.println();
        }

    }
}
```



matrixadd - Notepad

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        System.out.println("Enter the second matrix: ");
        for(i=0;i<3;i++)
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        System.out.println("Addition...");
        for(i=0; i<3; i++)
        {
            for(j=0; j<3; j++)
            {
                c[i][j] = a[i][j] + b[i][j];
                System.out.print(c[i][j] + "\t");
            }
            System.out.println();
        }

    }
}
```

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Command Prompt

```
C:\Users\shara\OneDrive\Desktop>javac matrixadd.java

C:\Users\shara\OneDrive\Desktop>java matrixadd
Enter the first matrix:
3
7
1
8
5
0
2
2
5
Enter the second matrix:
7
5
0
9
4
1
6
1
2
Addition...
10      12      1
17      9       1
8       3       7

C:\Users\shara\OneDrive\Desktop>
```

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