

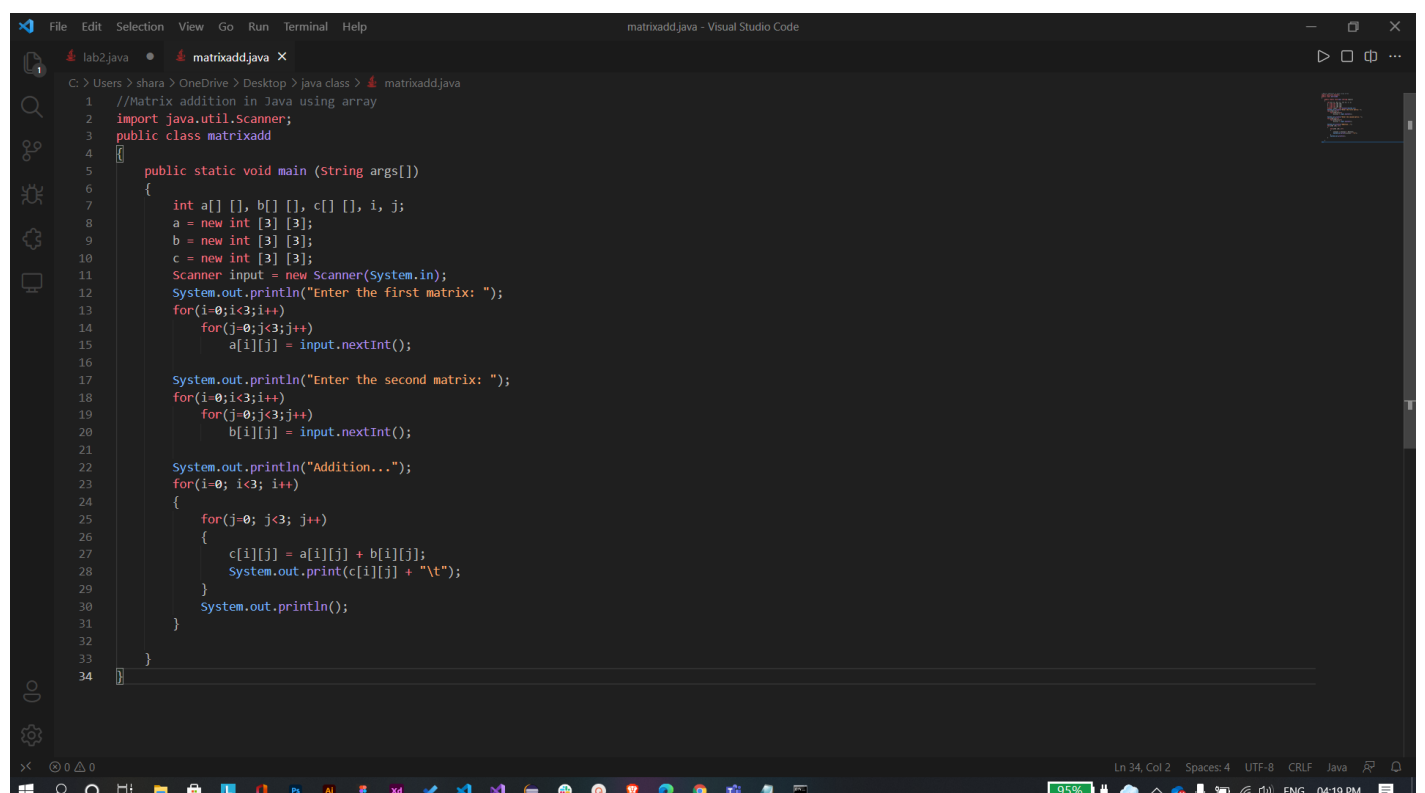
**CSE1007 Java Programming Theory A2+TAA2 on 09-08-2021**  
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**Q. Write a java code to perform matrix addition using array.**

```
//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();
        }
    }
}
```



```
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matrixadd.java - Visual Studio Code

lab2.java • matrixadd.java ×
C:\Users> shara > OneDrive > Desktop > java class > matrixadd.java
1 //Matrix addition in Java using array
2 import java.util.Scanner;
3 public class matrixadd
4 {
5     public static void main (String args[])
6     {
7         int a[] [], b[] [], c[] [], i, j;
8         a = new int [3] [3];
9         b = new int [3] [3];
10        c = new int [3] [3];
11        Scanner input = new Scanner(System.in);
12        System.out.println("Enter the first matrix: ");
13        for(i=0;i<3;i++)
14            for(j=0;j<3;j++)
15                a[i][j] = input.nextInt();
16
17        System.out.println("Enter the second matrix: ");
18        for(i=0;i<3;i++)
19            for(j=0;j<3;j++)
20                b[i][j] = input.nextInt();
21
22        System.out.println("Addition...");
23        for(i=0; i<3; i++)
24        {
25            for(j=0; j<3; j++)
26            {
27                c[i][j] = a[i][j] + b[i][j];
28                System.out.print(c[i][j] + "\t");
29            }
30            System.out.println();
31        }
32    }
33 }
34
```

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```
matixadd - Notepad
File Edit Format View Help
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        System.out.println("Enter the second matrix: ");
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            for(j=0;j<3;j++)
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        System.out.println("Addition...");
        for(i=0; i<3; i++)
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                c[i][j] = a[i][j] + b[i][j];
                System.out.print(c[i][j] + "\t");
            }
            System.out.println();
        }
    }
}
```

```
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>
```