

```
import java.util.*;
class Matrix {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a[][] = { { 3, 6 }, { 6, 2 } };
        int b[][] = { { 5, 9 }, { 9, 3 } };
        int c[][] = new int[2][2];
        int i, j, k;
        System.out.println("\nGiven A Matrix
is...");
        for(i = 0; i < 2; i++)
        {
            for(j = 0; j < 2; j++)
            {
                System.out.print(a[i][j] + "\t");
            }
            System.out.println("\n");
        }
        System.out.println("\nGiven B Matrix is...");
        for(i = 0; i < 2; i++)
        {
```

```
for(j = 0; j < 2; j++)
{
    System.out.print(b[i][j] + "\t");
}
System.out.println("\n");
}
for(i = 0; i < 2; i++)
{
    for(j = 0; j < 2; j++)
    {
        c[i][j] = a[i][j] + b[i][j];
    }
}
System.out.println("\nMatrix Addition
is...");
for(i = 0; i < 2; i++)
{
    for(j = 0; j < 2; j++)
    {
        System.out.print(c[i][j] + "\t");
    }
}
```

```
System.out.println("\n");
}
for(i = 0; i < 2; i++) {
for(j = 0; j < 2; j++) {
c[i][j] = a[i][j] - b[i][j];
}
}
System.out.println("\nMatrix Subtraction
is...");
for(i = 0; i < 2; i++)
{
for(j = 0; j < 2; j++)
{
System.out.print(c[i][j] + "\t");
}
System.out.println("\n");
}
for(i = 0; i < 2; i++)
{
for(j = 0; j < 2; j++)
{
```

```
for(k = 0; k < 2; k++) {  
    c[i][j] = c[i][j] + a[i][k] * b[k][j];  
}  
}  
}  
System.out.println("\nMatrix  
Multiplication is...");  
for(i = 0; i < 2; i++)  
{  
    for(j = 0; j < 2; j++)  
    {  
        System.out.print(c[i][j] + "\t");  
    }  
    System.out.println("\n");  
}  
}  
}
```

C:\Users\MR.

RGM\OneDrive\Desktop\OOP CODE>javac
Matrix.java

C:\Users\MR.

RGM\OneDrive\Desktop\OOP CODE>java
Matrix.java

Given A Matrix is...

3 6

6 2

Given B Matrix is...

5 9

9 3

Matrix Addition is...

8 15

15 5

Matrix Subtraction is...

-2 -3

-3 -1

Matrix Multiplication is...

67 42

45 59

```
class Stringcomp
{
    public static void main(String[] args)
    {
        String a = "Apple";
        String b = "Apple";
        String c = "Strawberry";
        String d = new String("Apple");
        System.out.println(a.equals(b));
        System.out.println(a.equals(c));
        System.out.println(a.equals(d));
    }
}
```

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Stringcomp.java

C:\Users\MR.

RGM\OneDrive\Desktop\OOP CODE>java
Stringcomp.java

true

false

true


```
class Stringconc
```

```
{
```

```
public static void main(String[] args)
```

```
{
```

```
String a1 = "Laal";
```

```
String a2 = "bahadur";
```

```
String a3 = a1.concat(a2);
```

```
System.out.println(a3);
```

```
}
```

```
}
```

C:\Users\MR.

RGM\OneDrive\Desktop\OOP CODE>javac
Stringconc.java

C:\Users\MR.

RGM\OneDrive\Desktop\OOP CODE>java
Stringconc.java
Laalbahadur

```
class Stringsize
{
public static void main(String[] args)
{
String a = "He is playing cricket";
System.out.println("The size of the string
is:" + a.length());
}
}
```

C:\Users\MR.

RGM\OneDrive\Desktop\OOP CODE>javac
Stringsize.java

C:\Users\MR.

RGM\OneDrive\Desktop\OOP CODE>java
Stringsize.java

The size of the string is:21