

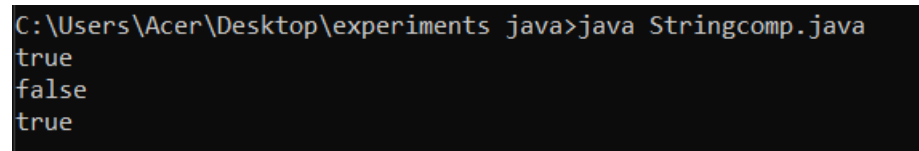
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BRANCH/ROLL NO: AI&DS/55

### 1.)STRING COMPARE

```
public 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));  
    }  
}
```

OUTPUT:



```
C:\Users\Acer\Desktop\experiments java>java Stringcomp.java  
true  
false  
true
```

### 2.)STRING CONCATENATION

```
public class Stringconc {  
    public static void main(String[] args) {  
        String a1 = "Vinith";  
        String a2 = "Shetty";  
        String a3 = a1.concat(a2);  
        System.out.println(a3);  
    }  
}
```

```
}
```

OUTPUT:

```
C:\Users\Acer\Desktop\experiments java>java Stringconc.java  
VinithShetty
```

### 3.)STRING SIZE

```
public 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());  
    }  
}
```

OUTPUT:

```
C:\Users\Acer\Desktop\experiments java>java Stringsize.java  
The size of the string is:21
```

### 4.) MATRIX

```
import java.util.*;
```

```
public 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");  
}
```

```
    }  
  
    }  
}
```

OUTPUT:

```
C:\Users\Acer\Desktop\experiments java>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
```