1) MATRIX

```
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");
    }
  }
}
```

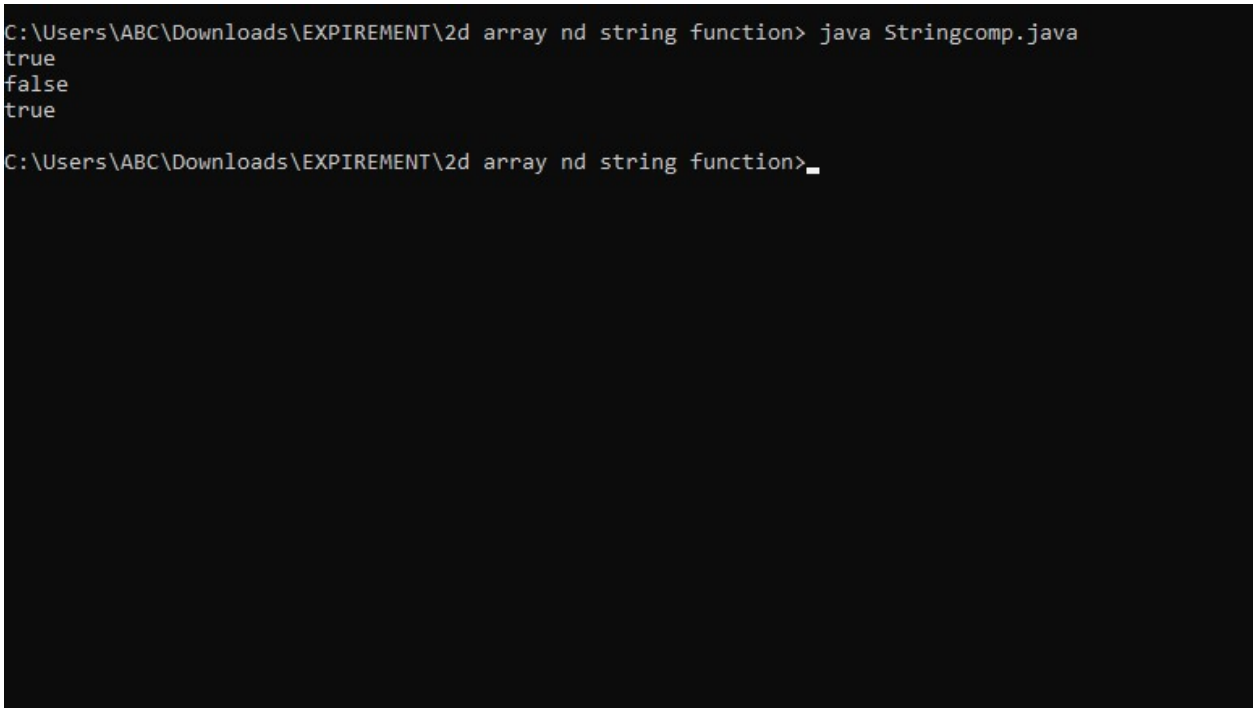
OUTPUT:

```
C:\Users\ABC\Downloads\EXPIREMENT\2d array nd string function> 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


C:\Users\ABC\Downloads\EXPIREMENT\2d array nd string function>^S^S
```

2) 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));

  }

}
```

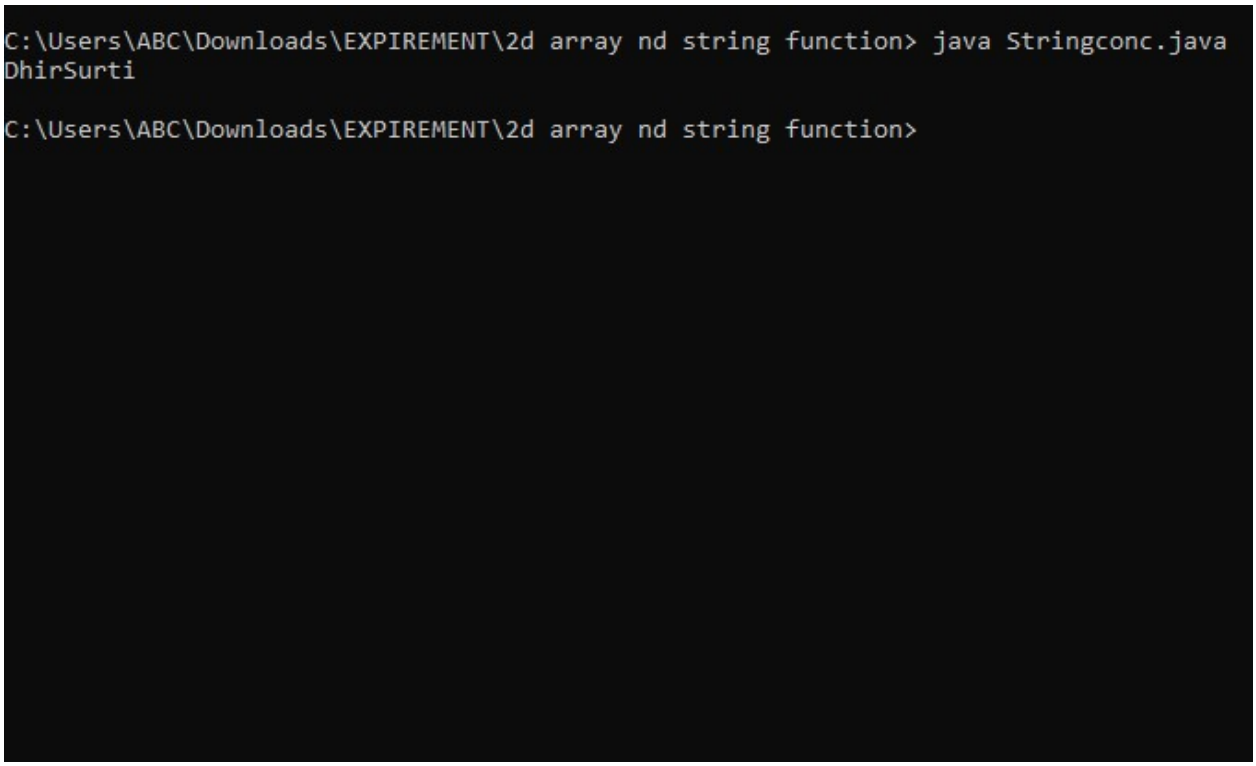
OUTPUT:



3) STRING CONCATENATION

```
public class Stringconc {

 public static void main(String[] args) {

  String a1 = "Dhir";

  String a2 = "Surti";

  String a3 = a1.concat(a2);

  System.out.println(a3);

 }

}
```

OUTPUT:



4) 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: