

```

1  import java.util.Arrays;
2
3  public class Main
4  {
5      private static void sortBinaryArray(int[] inputArray)
6      {
7          int zeroCount = 0;
8
9          System.out.println("Author: J Sri Sai Manoj\n");
10         System.out.println("Before Sorting : "+Arrays.toString(inputArray));
11
12         for (int n = 0; n < inputArray.length; n++)
13         {
14             if (inputArray[n] == 0)
15             {
16                 zeroCount++;
17             }
18         }
19
20         for (int n = 0; n < zeroCount; n++)
21         {
22             inputArray[n] = 0;
23         }
24
25
26         for (int n = zeroCount; n < inputArray.length; n++)
27         {
28             inputArray[n] = 1;
29         }
30
31         System.out.println("After Sorting : "+Arrays.toString(inputArray));
32     }
33
34     public static void main(String[] args)
35     {
36         sortBinaryArray(new int[] {1, 0, 1, 1, 0, 0, 1, 0, 1, 1});
37     }
38 }

```

✕ Terminal



Author: J Sri Sai Manoj

SAP ID: 51834596

Before Sorting : [1, 0, 1, 1, 0, 1, 0, 0]

After Sorting : [0, 0, 0, 0, 1, 1, 1, 1]

Process finished.

```

1  class Pattern
2  {
3      public static void main(String args[])
4      {
5          System.out.println("Author : J Sri Sai Mano
6          System.out.println("SAP ID: 51834596");
7          for(int i=1;i<=5;i++)
8          {
9              for(int j=1;j<=i;j++)
10             {
11                 if(i==5 && j==3)
12                 {
13                     System.out.print("@");
14                 }
15                 else if(j==1 || j==i)
16                 {
17                     System.out.print("1");
18                 }
19                 else
20                 {
21                     System.out.print("0");
22                 }
23             }
24             System.out.println();
25         }
26     }
27 }

```

✕ Terminal



```

Author : J Sri Sai Manoj
SAP ID: 51834596
1
11
101
1001
10@01

```

Process finished.

```

1 import java.util.*;
2 public class BinarySearch
3 {
4     public static void main(String[] args) {
5         System.out.println ("Author: J Sri Sai Mani");
6         System.out.println("SAP ID: 51834596");
7         Scanner s = new Scanner (System.in);
8         System.out.println("Enter the length of
9         int length = s.nextInt();
10        s.nextLine();
11        String name[] = new String [length];
12        int std[] = new int [length];
13        boolean chk = false;
14        System.out.println("Enter the string");
15        for (int i = 0; i<length; i++)
16        {
17            name[i] = s.nextLine();
18        }
19        System.out.println("Enter the String name");
20        String search = s.nextLine();
21        int f = 0;
22        int l = length-1;
23        int m;
24        while (f<=l)
25        {
26            m = (f+l)/2;
27            if (search.compareTo(name[m])>0)
28            {
29                f = m+1;
30            }
31            else if (search.compareTo(name[m])<0)
32            {
33                l = m-1;
34            }
35            else
36            {
37                chk = true;
38                System.out.println("Search successful");
39                System.out.println("String is found");
40
41                break;
42            }
43        }
44        if (chk == false)
45        {
46            System.out.println("Search unsuccessful");
47        }
48    }
49 }

```

✕ Terminal



```
Author: J Sri Sai Manoj
SAP ID: 51834596
Enter the length of the String
4
Enter the string
manoj
suresh
sai
hemanth
Enter the String name you want to search
manoj
Search successful
String is found at : 0 Index

Process finished.
|
```

```

1  import java.util.Scanner;
2  class ReplaceNumber
3  {
4  static int replaceDigit(int x, int d1, int d2)
5  {
6      int result = 0, multiply = 1;
7
8      while (x % 10 > 0)
9      {
10         int remainder = x % 10;
11         if (remainder == d1)
12             result = result + d2 * multiply;
13         else
14             result = result + remainder * multiply;
15         multiply *= 10;
16         x = x / 10;
17     }
18     return result;
19 }
20 public static void main(String[] args){
21     Scanner s = new Scanner(System.in);
22     System.out.println("Author : J.Sri Sai Manoj");
23     System.out.println("SAP ID : 51834596");
24     System.out.println("Enter the number: ");
25     int v1= s.nextInt();
26     System.out.println("Enter the number you want");
27     int v2 = s.nextInt();
28     System.out.println("By which number you are");
29     int v3 = s.nextInt();
30     System.out.println("Output: ");
31     System.out.println(replaceDigit(v1,v2,v3));
32 }
33 }

```

✕ Terminal



```
Author : J.Sri Sai Manoj
SAP ID : 51834596
Enter the number:
198237645
Enter the number you want to change:
3
By which number you are changing:
0
Output:
198207645

Process finished.
```