

```
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\nSri");
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,
37    }
38 }
```

## X 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 }
```

## X 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 Man");
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 success");
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 }
```

## X 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 }
```

## X 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.
```