

```
1 import java.io.*;
2 public class Main
3 {
4     public static void main(String[] args) throws
5     {
6         BufferedReader br=new BufferedReader
7         System.out.println("Author:M.Bhrath
8         System.out.print("Enter a number : "
9         int n = Integer.parseInt(br.readLine
10        int copy = n, a = 0, sum = 0;
11        String b = Integer.toString(n);
12        int len = b.length();
13
14        while(copy>0)
15        {
16            a = copy % 10;
17            sum = sum + (int)Math.pow(a,len)
18            len--;
19            copy = copy / 10;
20        }
21
22        if(sum == n)
23            System.out.println(n+" is a Disa
24        else
25            System.out.println(n+" is not a
26        }
27    }
```

✕ Terminal



```
Author:M.Bhrath Chandra
SAP ID:51834556
Enter a number : 5
5 is a Disarium Number.
```

Process finished.

```

5  tic void sortBinaryArray(int[] inputArray)
6
7  Count = 0;
8
9  ut.println("Author:M.Bharath Chandra\nSAP ID:518
10 ut.println("Input Array Before Sorting : "+Array
11
12
13  n = 0; n < inputArray.length; n++)
14
15 .inputArray[n] == 0)
16
17 zeroCount++;
18
19
20
21
22  n = 0; n < zeroCount; n++)
23
24 :Array[n] = 0;
25
26
27
28  n = zeroCount; n < inputArray.length; n++)
29
30 :Array[n] = 1;
31
32
33 ut.println("Input Array After Sorting : "+Arrays
34
35
36 ic void main(String[] args)
37
38 ryArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
39

```

✕ Terminal



```

Author:M.Bharath Chandra
SAP ID:51834556
Input Array Before Sorting : [1, 0, 1, 1,
Input Array After Sorting : [0, 0, 0, 0, 1
Process finished.

```



```

1 public class Main
2 {
3     static int replaceDigit(int a, int numbertoberep
4                             int replacingnumber)
5     {
6         int result = 0, multiply = 1;
7
8         while (a % 10 > 0)
9         {
10
11             int remainder = a % 10;
12
13             if (remainder == numbertobereplaced)
14                 result = result + replacingnumber * mu
15
16             else
17                 result = result + remainder * multiply
18
19             multiply *= 10;
20             a = a / 10;
21         }
22         return result;
23     }
24
25     public static void main(String[] args)
26     {
27         int a = 645, numbertobereplaced = 6, replacir
28         System.out.println("Author:M.Bharath Chandra\
29         System.out.println(replaceDigit(a, numbertobe
30     }
31 }

```

✕ Terminal



```

Author:M.Bharath Chandra
SAP ID:51834556
545

```

Process finished.

```

6     return -1;
7
8
9
10    mid = (left + right) / 2;
11
12    n == M[mid]) {
13    return mid;
14
15
16    if (n < M[mid]) {
17    return binarySearch(M, left, mid - 1, n);
18
19
20    {
21    return binarySearch(M, mid + 1, right, n);
22
23
24
25    static void main(String[] args)
26
27    ] M = { 2, 5, 6, 8, 9, 10 };
28    key = 3;
29
30    left = 0;
31    right = M.length - 1;
32
33    index = binarySearch(M, left, right, key);
34
35    em.out.println("Author:M.Bharath Chandra\nSAP ID
36    index != -1) {
37    system.out.println("Element found at index " + in
38    se {
39    system.out.println("Element not found in the arra
40
41

```

✕ Terminal



```

Author:M.Bharath Chandra
SAP ID: 51834556
Element not found in the array

Process finished.

```