

1st Question :

```
← Disarium.java 🔒
Saved

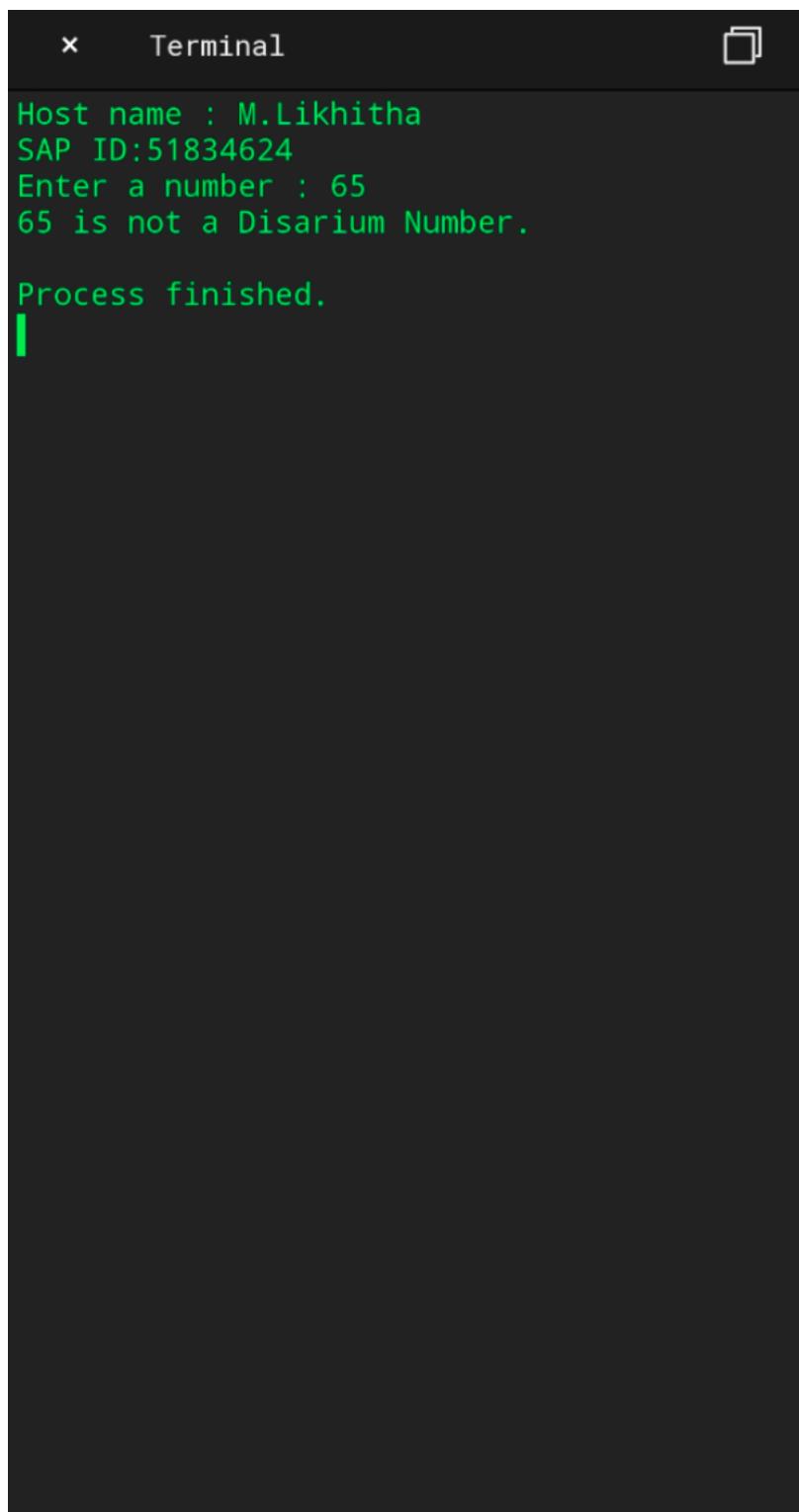
1 import java.io.*;
2 public class Main
3 {
4     public static void main(String[] args) throws
5     {
6         BufferedReader br=new BufferedReader (new I
7         System.out.println("Host name : M.Likhitha\"
8         System.out.print("Enter a number : ");
9         int n = Integer.parseInt(br.readLine());
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 Disarium Number");
24        else
25            System.out.println(n+" is not a Disarium");
26    }
27 }
```

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Output Screen :



A screenshot of a terminal window titled "Terminal". The window has a black background and white text. It displays the following output:

```
Host name : M.Likhitha
SAP ID:51834624
Enter a number : 65
65 is not a Disarium Number.

Process finished.
```

The terminal window includes standard icons for closing, minimizing, and maximizing the window.



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2nd Question :

```
SortingOfBinary.java     
Saved
```

```
1 import java.io.*;
2 class countzot {
3     static void sort012(int a[], int arr_size)
4     {
5         int lo = 0;
6         int hi = arr_size - 1;
7         int mid = 0, temp = 0;
8         while (mid <= hi) {
9             switch (a[mid]) {
10                 case 0: {
11                     temp = a[lo];
12                     a[lo] = a[mid];
13                     a[mid] = temp;
14                     lo++;
15                     mid++;
16                     break;
17                 }
18                 case 1:
19                     mid++;
20                     break;
21                 case 2: {
22                     temp = a[mid];
23                     a[mid] = a[hi];
24                     a[hi] = temp;
25                     hi--;
26                     break;
27                 }
28             }
29         }
30     }
31     static void printArray(int arr[], int arr_si
32     {
33         int i;
34         for (i = 0; i < arr_size; i++)
35             System.out.print(arr[i] + " ");
36         System.out.println("");
37     }
38     public static void main(String[] args)
39     {
40         System.out.println("Host name : M.Likhitha
41         int arr[] = { 0, 1, 1, 0, 1, 2, 1, 2, 0, 0
42         int arr_size = arr.length;
43         sort012(arr, arr_size);
44         println("Array after segm
45         : Make public  arr, arr_size);
46     }

```



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Out Put Screen :

```
x Terminal

Host name : M.Likhitha
Sap id : 51834624
Array after segregation
0 0 0 0 0 1 1 1 1 1 2 2

Process finished.
```



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### 3rd Question :

```
>MainC.java  Saved

1 // Java program to replace a digit
2 // with other in a given number.
3 class Main
4 {
5     static int replaceDigit(int x, int d1,
6                             int d2)
7     {
8         int result = 0, multiply = 1;
9
10        while (x % 10 > 0)
11        {
12
13            // Take remainder of number
14            // starting from the unit
15            // place digit
16            int remainder = x % 10;
17
18            // check whether it is equal
19            // to the digit to be replaced.
20            // if yes then replace
21            if (remainder == d1)
22                result = result + d2 * multiply;
23
24            else // else remain as such
25                result = result + remainder * multiply;
26
27            // Update and move forward
28            // from unit place to
29            // hundred place and so on.
30            multiply *= 10;
31            x = x / 10; // update the value
32        }
33        return result;
34    }
35
36
37 public static void main(String[] args)
38 {
39     System.out.println("Host name : M.Likhitha"
40     int x = 345, d1 = 6, d2 = 5;
41     System.out.println(replaceDigit(x, d1, d2));
42 }
43 }

: Make public 
```



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## Output Screen :

```
x Terminal
Host name : M.Likhitha
Sap id :51834624
345

Process finished.
```



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## 5th Question :

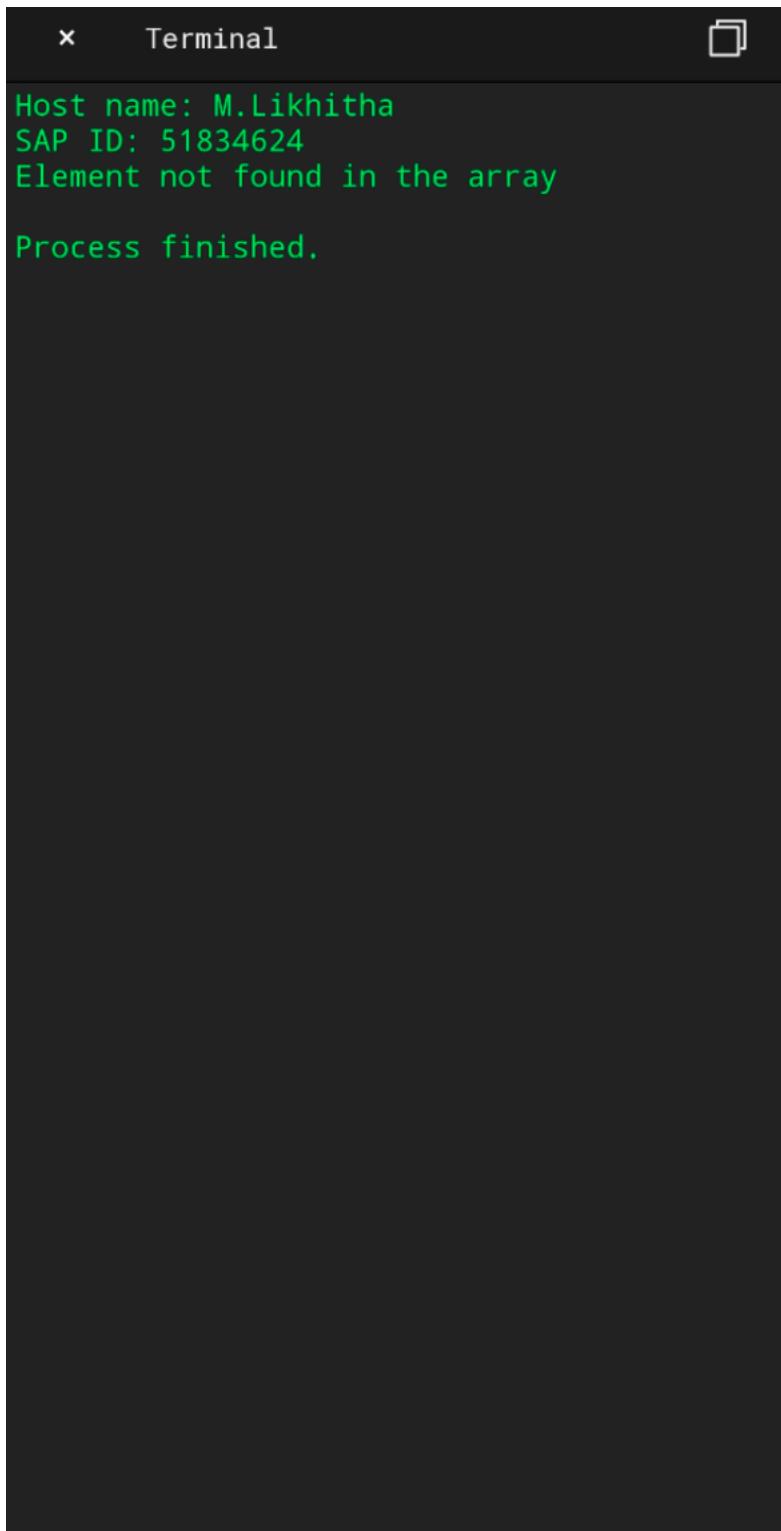
```
← BinarySearch.java 🔒 Saved :  
1 public class Main  
2 {  
3     public static int binarySearch(int[] M, int le  
4     {  
5         if (left > right) {  
6             return -1;  
7         }  
8         int mid = (left + right) / 2;  
9  
10        if (n == M[mid]) {  
11            return mid;  
12        }  
13        else if (n < M[mid]) {  
14            return binarySearch(M, left, mid - 1, n)  
15        }  
16  
17        else {  
18            return binarySearch(M, mid + 1, right, r  
19        }  
20    }  
21  
22    public static void main(String[] args)  
23    {  
24        int[] M = { 2, 5, 6, 8, 9, 10 };  
25        int key = 3;  
26  
27        int left = 0;  
28        int right = M.length - 1;  
29  
30        int index = binarySearch(M, left, right, k  
31  
32        System.out.println("Host name: M.Likhitha\\  
33        if (index != -1) {  
34            System.out.println("Element found at ind  
35        } else {  
36            System.out.println("Element not found in  
37        }  
38    }  
39 }
```

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## Output Screen :



A screenshot of a terminal window titled "Terminal". The window has a dark background and light-colored text. It displays the following output:

```
x Terminal
Host name: M.Likhitha
SAP ID: 51834624
Element not found in the array

Process finished.
```



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