1st question and answer

2nd question and answer

```
SortingBinaryArray.java △
  \leftarrow
   ort java.util.Arrays;
  lic class SortingBinaryArray
   private static void sortBinaryArray(int[] inputArra
       int zeroCount = 0;
       System.out.println("Host name:Dakshayani\nSAP
System.out.println("Input Array Before Sorting
       for (int n = 0; n < inputArray.length; n++)</pre>
           if (inputArray[n] == 0)
               zeroCount++;
       for (int n = 0; n < zeroCount; n++)
           inputArray[n] = 0;
       for (int n = zeroCount; n < inputArray.length;</pre>
           inputArray[n] = 1;
       System.out.println("Input Array After Sorting
   public static void main(String[] args)
       sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1, 0,
                                                   卣
   × Terminal
out Array Before Sorting :[1, 0, 1, 1, 0, 1, 0,
out Array After Sorting :[0, 0, 0, 0, 1, 1, 1,
ocess finished.
```

3rd the question and answer

```
ReplacingNumber.java 🖴
\leftarrow
:lass ReplacingNumber
result = 0, multiply = 1;
e (a % 10 > 0)
int remainder = a % 10;
if (remainder == numbertobereplaced)
    result = result + replacingnumber * multiply;
   result = result + remainder * multiply;
nultiply *= 10;
a = a / 10;
rn result;
;tatic void main(String[] args)
a = 858, numbertobereplaced = 8,replacingnumber=5;
em.out.println("Host name:Dakshayani\nSAP ID:51834
em.out.println(replaceDigit(a, numbertobereplaced,
                                                  巾
X Terminal
```

5th question and answer

```
BinarySearch.java 🖴
  lic class BinarySearch
   public static int binarySearch(int[] M, int left,
       if (left > right) {
          return -1;
       int mid = (left + right) / 2;
       if (n == M[mid]) {
          return mid;
       else if (n < M[mid]) {
          return binarySearch(M, left, mid - 1, n);
          return binarySearch(M, mid + 1, right, n);
   public static void main(String[] args)
       int[] M = { 47,37,12,98,36,04,};
int key = 36;
       int left = 0;
int right = M.length - 1;
       int index = binarySearch(M, left, right, key);
       System.out.println("Host name:Dakshayani\nSAP
       if (index != -1) {
          System.out.println("Element found at inde
          System.out.println("Element not found in t
  × Terminal
Element found at index 4
```

Quiz marks:-7