

1) Write a java program to perform right rotation of a string based on number of characters?

input:

string str="StudentTribe";

cnt=2;

output:

udentTribeSt

sol:

```
public class Test {
    public static void main(String[] args) {
        String str = "StudentTribe";
        int cnt = 2;

        cnt = cnt % str.length();

        String rotatedString = "";

        for (int i = cnt; i < str.length(); i++) {
            rotatedString += str.charAt(i);
        }

        for (int i = 0; i < cnt; i++) {
            rotatedString += str.charAt(i);
        }

        System.out.println(rotatedString);
    }
}
```

2) Write a java program to find out most repeating character from given string?

input:

studenttribestudenttribe

output:

t is repeating for 6 times

sol:

```
public class Test {
    public static void main(String[] args) {
        String str = "studenttribestudenttribe";

        int[] fre = new int[256];

        for (int i = 0; i < str.length(); i++) {
            char currentChar = str.charAt(i);
            fre[currentChar]++;
        }
    }
}
```

```

        char mostRepeatingChar = ' ';
        int maxFrequency = 0;

        for (int i = 0; i < fre.length; i++) {
            if (fre[i] > maxFrequency) {
                maxFrequency = fre[i];
                mostRepeatingChar = (char) i;
            }
        }

        System.out.println(mostRepeatingChar + " is repeating for " +
maxFrequency + " times");
    }
}

```

3) Write a java program to find out missing element from given array?

Input: 5 6 2 3 1

Output: 4

sol:

```

public class Test {
    public static void main(String[] args) {
        int[] arr= {5,6,2,3,1};
        int n=arr.length+1;
        int sum1=n*(n+1)/2;
        int sum2=0;

        for(int i=0;i<arr.length;i++) {
            sum2=sum2+arr[i];
        }
        int a=sum1-sum2;
        System.out.println(a);
    }
}

```

4)Write a java program to count number of even and odd elements from given array?

Input: 3 4 7 9 2 6 1

Output:

Even elements : 3

Odd elements : 4

sol:

```

public class Test{
    public static void main(String[] args) {

```

```

int[] arr= {3,4,7,9,2,6,1};
int a=0;
int b=0;
for(int i=0;i<arr.length;i++) {
    if(arr[i]%2==0) {
        a++;
    }
    else {
        b++;
    }
}
System.out.println("Even elements: "+a);
System.out.println("Odd elements: "+b);
}
}

```

5)Write a java program to concatenate two arrays and display them in sorting order?

Input:

arr1= 1 5 3 4 2

arr2= 9 7 6 8 10

Output:

1 2 3 4 5 6 7 8 9 10

sol:

```
import java.util.Arrays;
```

```
public class Test {
```

```
    public static void main(String[] args) {
```

```
        int[] arr1 = { 1, 5, 3, 4, 2 };
        int[] arr2 = { 9, 7, 6, 8, 10 };
```

```
        int[] arr = new int[arr1.length + arr2.length];
```

```
        int[] arr = new int[arr1.length + arr2.length];
```

```
        for (int i = 0; i < arr1.length; i++) {
```

```
            arr[i] = arr1[i];
```

```
        }
```

```
        for (int i = 0; i < arr2.length; i++) {
```

```
            arr[arr1.length + i] = arr2[i];
```

```
        }
```

```
        Arrays.sort(arr);
```

```
        //for (int num : arr) {
```

```
            System.out.print(arr + " ");
```

```
//
```

```
// }
```

```
        for(int i=0;i<arr.length;i++) {
```

```
        }
    }
    System.out.print(arr[i]+ " ");
}
```