

```

1. :
public class qn1 {
    public static void main (String[]args)
    {
double n1 = 5, n2 = 15, n3 = 50; if (n1
>= n2 && n1 >= n3)
    System.out.println (n1 + "is the largest number."); else if (n2
>= n1 && n2 >= n3)
    System.out.println (n2 + "is the largest number."); else
        System.out.println (n3 + "is the largest number.");
    }
}

```

Output:

20.0 is the largest number.

2:

```

public class qn2 {
public static void main(String[] args) { Scanner
in = new Scanner(System.in); int cnte =0
,cnto = 0;
    for(int i=0;i<10;i++){
        System.out.println("Enter no. :");
        int x = in.nextInt();
        if(x%2==0){
            cnte++;
        }else cnto++;
    }
System.out.println("No of even no is " + cnte);
System.out.println("No of odd no is " + cnto);
}
}

```

Output:

Enter no. :

1

Enter no. :

3

Enter no. :

4

Enter no. :

5

Enter no. :

6

Enter no. :

7

Enter no. :

8

Enter no. :

9

Enter no. :

10

Enter no. :

11

No of even no is 4

No of odd no is 6

3:

```

public class qn3 {
    public static void main(String[] args) {

```

```

//Initialize array
int[] arr = new int[]{5, 4, 3, 2, 1}; int temp =
0; System.out.println("Original array: "); for
(int i = 0; i < arr.length; i++) {
    System.out.print(arr[i] + " ");
}
for (int i = 0; i < arr.length; i++) {
    for (int j = i + 1; j < arr.length; j++) { if
        (arr[i] > arr[j]) {
            temp = arr[i];
            arr[i] = arr[j];
            arr[j] = temp;
        }
    }
}
System.out.println();
//Displaying elements of array after sorting
System.out.println("Elements of array sorted :
"); for (int i = 0; i < arr.length; i++) {
    System.out.print(arr[i] + " ");
}
}
}

```

Output:

Original array:

5 4 3 2 1

Elements of array sorted :

1 2 3 4 5

4:

```

public class qn4 {
    static int count=0;
    public static void main(String args[])
    {
        qn4 c1=new qn4();
        c1.count();
        qn4 c2=new qn4();
        c2.count();
        qn4 c3=new qn4();
        c3.count();
        System.out.println("Total Number of Objects: "+count);
    }
    //function counts the number of objects
    static void count()
    {
        count++;
    }
}

```

Output:

Total Number of Objects: 3

5:

```

public class qn5 {
    //Find diagonal sum of a matrix
    public static void main(String[] args) { int[][] arr =
        {{1,2,3},{4,5,6},{7,8,9}};
        int sum = 0;

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

```

```

        {
            sum += arr[i][i];
        }
        System.out.println("Left diagonal sum is:"+sum);

        sum = 0;
        for(int i = 0; i < arr.length; i++)
        {
            sum += arr[i][arr.length-1-i];
        }
        System.out.println("Right diagonal sum is:"+sum);
    }
}

```

Output:

Left diagonal sum is:15

Right diagonal sum is:15

6:

```

public class qn6 {
    public static void main(String[] args) {
        int[] arr = {1,2,3,4,5,6,7,8,2,3,1,1,3,4,6,5};
        int x= arr.length;
        int[] count = new int[100]; int temp;
        for(int i = 0; i < arr.length; i++)
        {
            temp = arr[i];
            count[temp]++;
        }

        //Display the array
        for(int i = 0; i < count.length; i++)
        {
            if(count[i] != 0)
            {
                System.out.println(i+" occurs "+count[i]+" times");
            }
        }
    }
}

```

Output:

1 occurs 3 times

2 occurs 2 times

3 occurs 3 times

4 occurs 2 times

5 occurs 2 times

6 occurs 2 times

7 occurs 1 times

8 occurs 1 times

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