解答 1:

```java
import java.io.*;
import java.util.*;

public class BOX{
    public static void main(String[] args)throws IOException{

        Scanner sc = new Scanner(System.in);
        CBox box = new CBox();

        System.out.print("input length: ");
        box.length = sc.nextInt();
        System.out.print("input width: ");
        box.width = sc.nextInt();
        System.out.print("input height: ");
        box.height = sc.nextInt();

        PrintWriter pw=new PrintWriter(new BufferedWriter(new FileWriter("ShowData.txt")));
        pw.println("length: " +box.length);
        pw.println("width: " + box.width);
        pw.println("height: " + box.height);
        pw.println("Volume: " + box.Volume() );
        pw.println("Surface: " + box.Surface() );
        pw.close();
        System.out.println("資料輸出成功!");
    }
}
class CBox{
    public int length;
    public int width;
    public int height;

    public int Volume(){
        return length*width*height;
    }
    public int Surface(){
```

```java
        return length*width*2 + length*height*2 + width*height*2 ;
    }
}
```

解答 2:

```java
import java.util.*;
import java.lang.Math;

public class test{
    public static void main(String[] args){
        Scanner sc = new Scanner(System.in);
        System.out.print("請輸入陣列大小: ");
        int num = sc.nextInt();
        int [][] a = new int[num][num];

        for(int i=0;i<num;i++){
            for(int j=0;j<num;j++)
                a[i][j] = (int)(Math.random()*10);
        }
        for(int i=0;i<num;i++){
            for(int j=0;j<num;j++){
                System.out.print(a[i][j]+ " ");
            }
            System.out.println();
        }

        int sum = 0;
        for(int i=0;i<num;i++){
            for(int j=0;j<num;j++){
                if(i==j || i+j==num-1)
                    sum += a[i][j];
            }
        }
        System.out.println();
        System.out.println("對角線和是:"+sum);
    }
}
```