

PROBLEMA 1

```
import java.util.Scanner;
    public class While1{
public static void main(String[]args) {
Scanner sc=new Scanner(System.in);
int i=0;
double S=0;
while(S<1000) {
int n=sc.nextInt();
if (n<=0) {
System.out.println("Please enter a valid number");
}
else {
S+=n;
i++;
}
}
System.out.println(S/i);
sc.close();
}
}
```

PROBLEMA 2

```
import java.util.Scanner;
public class Problema_2 {
public static void main(String[]args) {
int a=5;
do {
    int i=1;
do {
System.out.printf("%3d",a);
i++;
}
while(i<=a);
System.out.println();
a=a-1;}
while(a>=1);
}
}
```

PROBLEMA 3

```
import java.util.Scanner;
public class Problema_3 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        double n=sc.nextInt();
        double S1=0;
        double S2=0;
        double S=0;
        for(int a=1; a<=n; a++) {
            double e=Math.pow (a,3);
            S1=S1+e;
            S=S+a;
        }
        S2=Math.pow(S,2);
        if (S1>S2) {
            System.out.println("S1>S2");
        }
        else if(S1<S2) {
            System.out.println("S1<S2");
        }
        else {
            System.out.println("S1=S2");
            sc.close();
        }
    }
}
```