## Problema 1 (for)

```java
import java.util.Scanner;
public class TemaPeAcasa {
public static void main(String[] args)
{
int i,n=0,sum=0;
double avg;
{
System.out.println("Introduceti numerele : ");
}
for (i=0;i<45;i++){
Scanner in = new Scanner(System.in);
n = in.nextInt();
sum +=n;
if (sum>1000){
break;}
}
avg=sum/i;
System.out.println("Suma numerelor este: " +sum+"\nMedia aritmetica este: " +avg);
}
}
```

## Problema 2 (do…while)

```java
public class TemaPeAcasa{
public static void main( String []args) {
int j=5;
do {
int i=1;
do {
System.out.printf("%2d", j);
i++;
}while(i<=j);
System.out.println();
j--;
} while (j>=1);
}
}
```

## Problema 3 (while)

```java
import java.util.Scanner;
public class TemaPeAcasa{
public static void main( String []args) {
Scanner yale=new Scanner(System.in);
int n=yale.nextInt();
double s1=0, s2=0, sum=0;
int i=1;
while(i<=n) {
```

```java
s1+=Math.pow(i, 3);
sum+=i;
s2=Math.pow(sum, 2);
i++;
}
System.out.println("s1="+s1+"\ns2="+s2);
if (s1>s2) {
System.out.println("s1>s2"); }
else { if (s2>s1) {System.out.println("s2>s1");}
else System.out.println ("s1=s2");}
yale.close();
}
}
```