

```

import java.util.Scanner ;
public class WhileForDoWhile {
public static void main(String[] args) {
    //problema #1 utilizand instructiunea FOR
    {
    int i, n=0, sum=0;
    double medie;
    {
    System.out.println("Numerele citite de la tastatura sunt:") ;
    }
    for (i=0;i<45;i++) {
    Scanner pix = new Scanner(System.in) ;
    n=pix.nextInt();
    sum= sum+n;
    if(sum>1000) {
    break; }
    }
    medie=sum/i;
    System.out.println("Suma numerelor citite mai sus este:" + sum) ;
    System.out.println("Media aritmetica a acestor numere este:" + medie) ;
    }

    //problema #2 utilizand instructiunea Do...While
    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 utilizand instructiunea While
    System.out.print("n=");
    Scanner cv = new Scanner (System.in) ;
    int n=cv.nextInt();
    double s1=0, s2=0, sum=0;
    int i=1;
    while (i<=n) {
    s1=s1+Math.pow(i, 3) ;
    sum=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") ; }
    cv.close() ;
    }
}

```