Exercițiul 7 pag. 97

```
import java.util.Scanner;
public class Pr_7 {
public static void main (String[]args) {
Scanner sc=new Scanner(System.in);
double n=sc.nextDouble();
int S=0, P=1, s=0, p=1, s1=0, p1=1, s2=0, p2=1;
for(int i=1; i<=n;i++) {
S=S+(2*i-1); P=P*(2*i-1);}
for(int f=1; f<=n;f++) {
s=s+(2*f); p=p*(2*f);}
for(int g=1; g<=n;g++) {
s1=s1+(3*g); p1=p1*(3*g);}
for(int h=1; h<=n;h++) {
s2=s2+(4*h); p2=p2*(4*h);}
System.out.format("Instructiunea FOR
%na)Suma="+S+"; Produsul="+P+";%nb)Suma="+s+";
Produsul="+p+";%nc)Suma="+s1+";
Produsul="+p1+";%nd)Suma="+s2+";
Produsul="+p2+";");
int I=1, F=1, G=1, H=1, Sum=0, Pr=1, sum=0,
pr=1, sum1=0, pr1=1, sum2=0, pr2=1;
while(I<=n) {
Sum=Sum+(2*I-1); Pr=Pr*(2*I-1);
I++;}
while(F<=n) {
sum=sum+(2*F); pr=pr*(2*F);
F++;}
while(G<=n){
sum1=sum1+(3*G); pr1=pr1*(3*G);
G++;}
while(H<=n){
sum2=sum2+(4*H); pr2=pr2*(4*H);
H++;}
System.out.format("%nInstructiunea While
%na)Suma="+Sum+";
Produsul="+Pr+";%nb)Suma="+sum+";
Produsul="+pr+";%nc)Suma="+sum1+";
Produsul="+pr1+";%nd)Suma="+sum2+";
Produsul="+pr2+";");
sc.close();
}}
```

Exercițiul 8 pag. 97

```
import java.util.Scanner;
public class Ex_8 {
public static void main(String[]Args){
Scanner sc=new Scanner(System.in);
double n=sc.nextDouble();
double i=1, s=0;
while(i<=n) {
if(i%2==0) {
s=s-(1/i);
i++;
}else{
s=s+(1/i);
i++;
}}
System.out.println("Suma="+s);
sc.close();
}}
```

Exercițiul de pe fișă

```
import java.util.Scanner;
public class Ex_fisa {
public static void main (String[]args) {
Scanner sc=new Scanner(System.in);
double n=sc.nextDouble();
double i=1, s=0, p=1;
for(; i<=n; i++) {
s=s+(i/(i+1)); p=p*(i/(i+1));}
System.out.format("Instructiunea
FOR%nSuma="+s+";%nProdusul="+p+";");
double I=1, S=0, P=1;
while(I<=n) {
S=S+(I/(I+1)); P=P*(I/(I+1));
I++;}
System.out.format("%nInstructiunea
WHILE%nSuma="+S+";%nProdusul="+P+";");
sc.close();
}}
```

Exercițiul din clasă: $1+\sqrt{2}+\sqrt{3}+\cdots+\sqrt{n}$

```
import java.util.Scanner;
public class Radical {
public static void main (String[]args) {
Scanner sc=new Scanner(System.in);
double n=sc.nextDouble();
double i=1, s=0, p=1;
for(; i<=n; i++) {
double I=Math.sqrt(i);
s=s+I; p=p*I;}
System.out.format("Instructiunea
FOR%nSuma="+s+";%nProdusul="+p+";");
double i1=1, s1=0, p1=1;
while(i1<=n) {
double I1=Math.sqrt(i1);
s1=s1+I1; p1=p1*I1;
i1++;}
System.out.format("%nInstructiunea
WHILE%nSuma="+s1+";%nProdusul="+p1+";");
sc.close();
}}
```