

Problema 7

Metoda 1

```
a)import java.util.Scanner;
public class InstructiuneaFor {
public static void main (String []args) {
Scanner a=new Scanner (System.in);
int n=a.nextInt();
int s=0,p=1;
for(int i=1; i<=n; i++) {
s=s+(2*i-1);
p=p*(2*i-1);
}
System.out.println("a)Suma:"+s);
System.out.println(" Produsul:"+p);
a.close();
}
}
```

```
b)import java.util.Scanner;
public class InstructiuneaFor {
public static void main (String []args) {
Scanner a=new Scanner (System.in);
int n=a.nextInt();
int s=0,p=1;
for(int i=1; i<=n; i++) {
s=s+(2*i);
p=p*(2*i);
}
System.out.println("b)Suma:"+s);
System.out.println(" Produsul:"+p);
a.close();
}
}
```

```
C)import java.util.Scanner;
public class InstructiuneaFor {
public static void main (String []args) {
Scanner a=new Scanner (System.in);
int n=a.nextInt();
int s=0,p=1;
for(int i=1; i<=n; i++) {
s=s+(3*i);
p=p*(3*i);
}
System.out.println("c)Suma:"+s);
System.out.println(" Produsul:"+p);
a.close();
}
}
```

```

d) import java.util.Scanner;
public class InstructiuneaFor {
public static void main (String []args) {
Scanner a=new Scanner (System.in);
int n=a.nextInt();
int s=0,p=1;
for(int i=1; i<=n; i++) {
s=s+(4*i);
p=p*(4*i);
}
System.out.println("d)Suma:"+s);
System.out.println(" Produsul:"+p);
a.close();
}
}

```

Metoda 2

```

import java.util.Scanner;
public class InstructiuneaFor {
public static void main (String []args) {
Scanner a=new Scanner (System.in);
int n=a.nextInt();
System.out.println("n="+n);
int s=0,p=1;
for(int i=1; i<=n; i++) {
s=s+(2*i-1);
p=p*(2*i-1);
}
System.out.println("a)Suma:"+s);
System.out.println(" Produsul:"+p);
int s1=0,p1=1;
for(int i=1; i<=n; i++) {
s1=s1+(2*i);
p1=p1*(2*i);
}
System.out.println("b)Suma:"+s1);
System.out.println(" Produsul:"+p1);
int s2=0,p2=1;
for(int i=1; i<=n; i++) {
s2=s2+(3*i);
p2=p2*(3*i);
}
System.out.println("c)Suma:"+s2);
System.out.println(" Produsul:"+p2);
int s3=0,p3=1;
for(int i=1; i<=n; i++) {
s3=s3+(4*i);
p3=p3*(4*i);
}
System.out.println("d)Suma:"+s3);
System.out.println(" Produsul:"+p3);
a.close();
}
}

```

```
}
```

Metoda 3

```
import java.util.Scanner;
public class InstructiuneaFor {
    public static void main (String []args) {
        Scanner a=new Scanner (System.in);
        int n1=a.nextInt(),n2=aat.nextInt(), n3=aat.nextInt(), n4=aat.nextInt();
        int s=0,p=1;
        for(int i=1; i<=n1; i++) {
            s=s+(2*i-1);
            p=p*(2*i-1);
        }
        System.out.println("a)Suma:"+s);
        System.out.println(" Produsul:"+p);
        System.out.println("n1="+n1);
        int s1=0,p1=1;
        for(int i=1; i<=n2; i++) {
            s1=s1+(2*i);
            p1=p1*(2*i);
        }
        System.out.println("b)Suma:"+s1);
        System.out.println(" Produsul:"+p1);
        System.out.println("n2="+n2);
        int s2=0,p2=1;
        for(int i=1; i<=n3; i++) {
            s2=s2+(3*i);
            p2=p2*(3*i);
        }
        System.out.println("c)Suma:"+s2);
        System.out.println(" Produsul:"+p2);
        System.out.println("n3="+n3);
        int s3=0,p3=1;
        for(int i=1; i<=n4; i++) {
            s3=s3+(4*i);
            p3=p3*(4*i);
        }
        System.out.println("d)Suma:"+s3);
        System.out.println(" Produsul:"+p3);
        System.out.println("n4="+n4);
        a.close();
    }
}
```

Problema 8

```
import java.util.Scanner;
public class Rogovei{
    public static void main( String [] args){
```

```

Scanner ab=new Scanner(System.in);
int n=ab.nextInt();
System.out.println("n="+n);
double s=0;
for(int i=1; i<=n; i++){
if (i%2==0) { s-=1/i;} else { s=1/i;}
}
System.out.println("Suma:"+s);
ab.close();
}
}

```

Problema de pe foaie

```

import java.util.Scanner;
public class Alexei{
public static void main(String[] args) {
Scanner ab=new Scanner(System.in);
int n=ab.nextInt();
System.out.println("n="+n);
double s=0, p=1;
int i=1;
while(i<=n){
s+=i/(i+1);
p=p*i/(i+1);
i++;
}
System.out.println("suma:"+s);
System.out.println("produsul:"+p);
ab.close();
}
}

```