

## Problema din fișă

```
import java.util.Scanner;

public class Problema{

    public static void main (String[]args) {

        Scanner tastatura=new Scanner(System.in);

        int n=tastatura.nextInt();

        double sum=0;

        double m=1;

        double i=1;

        while( i<=n)

        {

            sum=sum+i/(i+1);

            m=m*(i/(i+1));

            i++;

        }

        System.out.println("suma este"+sum);

        System.out.println("produsul este"+m);

        tastatura.close();

    }

}
```

## EX7

## FOR

```
import java.util.Scanner;
```

```
public class ProblemaF1{

    public static void main (String[]args) {

        Scanner tastatura=new Scanner(System.in);

        int n=tastatura.nextInt();

        int s1=0, s2=0, s3=0, s4=0;

        double p1=1, p2=1, p3=1, p4=1;

        for(int i=1; i<=n; i++)

        {

            s1=s1+2*i-1;

            p1=p1*(2*i-1);

            s2=s2+2*i;

            p2=p2*(2*i);

            s3=s3+3*i;

            p3=p3*(3*i);

            s4=s4+4*i;

            p4=p4*(4*i);

        }

        System.out.println("suma1 este"+s1);

        System.out.println("produsul1 este"+p1);

        System.out.println("suma2 este"+s2);

        System.out.println("produsul2 este"+p2);

        System.out.println("suma3 este"+s3);

        System.out.println("produsul3 este"+p3);

        System.out.println("suma4 este"+s4);

    }

}
```

```
System.out.println("produsul4 este"+p4);
```

```
tastatura.close();
```

```
}
```

```
}
```

## **WHILE**

```
import java.util.Scanner;
```

```
public class ProblemaW1{
```

```
public static void main (String[]args) {
```

```
Scanner tastatura=new Scanner(System.in);
```

```
int n=tastatura.nextInt();
```

```
int s1=0, s2=0, s3=0, s4=0;
```

```
double p1=1, p2=1, p3=1, p4=1;
```

```
int i=1
```

```
while(i<=n)
```

```
{
```

```
s1=s1+2*i-1;
```

```
p1=p1*(2*i-1);
```

```
s2=s2+2*i;
```

```
p2=p2*(2*i);
```

```
s3=s3+3*i;
```

```
p3=p3*(3*i);
```

```
s4=s4+4*i;
```

```
p4=p4*(4*i);
```

```

i++;

}

System.out.println("suma1 este"+s1);

System.out.println("produsul1 este"+p1);

System.out.println("suma2 este"+s2);

System.out.println("produsul2 este"+p2);

System.out.println("suma3 este"+s3);

System.out.println("produsul3 este"+p3);

System.out.println("suma4 este"+s4);

System.out.println("produsul4 este"+p4);

tastatura.close();

}

}

```

## **EX8**

### **FOR**

```

import java.util.Scanner;

public class ProblemaF2{

    public static void main (String[]args) {

        Scanner tastatura=new Scanner(System.in);

        int n=tastatura.nextInt();

        double sum=0;

        for(int i=1; i<=n; i++)

        {

```

```

if((i%2)==0)
{
sum=sum-1/i;
}
else {
sum=sum+1/i;
}
}

System.out.println("suma este"+sum);

tastatura.close();
}
}

```

## WHILE

```

import java.util.Scanner;

public class ProblemaW2{

public static void main (String[]args) {

Scanner tastatura=new Scanner(System.in);

int n=tastatura.nextInt();

double sum=0;

while(i<=1) {

if((i%2)==0)

{

sum=sum-1/i;

i++;

```

```
}  
  
else {  
    sum=sum+1/i;  
    i++;  
}  
  
}  
  
System.out.println("suma este"+sum);  
tastatura.close();  
  
}
```