```
EXERCITIUL 7:
package scanner;
import java.util.Scanner;
public class Exercitiu_7a {
public static void main( String args[]) {
     Scanner hello=new Scanner(System.in);
     int n=hello.nextInt();
     int s=0;
     int p=1;
     for(int i=1; i<=n; i++) {</pre>
          s=s+2*(i-1);
          p=p*2*(i-1);
     System.out.println(s);
     System.out.println(p);
hello.close();
}
}
     package scanner;
import java.util.Scanner;
public class Exercitiu 7a while {
public static void main(String args []) {
     Scanner hello=new Scanner (System.in);
     int n=hello.nextInt();
int i=1;
int s=0;
int p=1;
while (i<=n)</pre>
     p=p*(2*i-1);
     s=s+(2*i-1);
     i++;
     }
     System.out.println("s="+s);
     System.out.println("p="+p);
hello.close();
}
}
```

```
b)
package scanner;
import java.util.Scanner;
public class Exercitiu_7b {
public static void main( String args[]) {
     Scanner sky=new Scanner(System.in);
     int n=sky.nextInt();
     int s=0;
     int p=1;
     for(int i=1; i<=n; i++) {</pre>
          s=s+2*i;
          p=p*2*i;
     System.out.println(s);
     System.out.println(p);
sky.close();
}
}
     package scanner;
import java.util.Scanner;
public class Exercitiu_7b_while {
public static void main(String args []) {
     Scanner sky=new Scanner (System.in);
     int n=sky.nextInt();
int i=1;
int s=0;
int p=1;
while (i<=n)</pre>
{
     p=p*2*i;
     s=s+2*i;
     i++;
     }
     System.out.println("s="+s);
     System.out.println("p="+p);
sky.close();
}
```

```
c)
package scanner;
import java.util.Scanner;
public class Exercitiu_7c {
public static void main( String args[]) {
     Scanner door=new Scanner(System.in);
     int n=door.nextInt();
     int s=0;
     int p=1;
     for(int i=1; i<=n; i++) {</pre>
          s=s+3*i;
          p=p*3*i;
     System.out.println(s);
     System.out.println(p);
door.close();
}
}
     package scanner;
import java.util.Scanner;
public class Exercitiu_7c_while {
public static void main(String args []) {
     Scanner door=new Scanner (System.in);
     int n=door.nextInt();
int i=1;
int s=0;
int p=1;
while (i<=n)</pre>
{
     p=p*3*i;
     s=s+3*i;
     i++;
     }
     System.out.println("s="+s);
     System.out.println("p="+p);
door.close();
}
```

```
d)
package scanner;
import java.util.Scanner;
public class Exercitiu 7c {
public static void main( String args[]) {
     Scanner mint=new Scanner(System.in);
     int n=mint.nextInt();
     int s=0;
     int p=1;
     for(int i=1; i<=n; i++) {</pre>
          s=s+4*i;
          p=p*4*i;
     System.out.println(s);
     System.out.println(p);
mint.close();
}
}
     package scanner;
import java.util.Scanner;
public class Exercitiu 7c while {
public static void main(String args []) {
     Scanner mint=new Scanner (System.in);
     int n=mint.nextInt();
int i=1;
int s=0;
int p=1;
while (i<=n)</pre>
{
     p=p*4*i;
     s=s+4*i;
     i++;
     }
     System.out.println("s="+s);
     System.out.println("p="+p);
mint.close();
}
}
```

```
EXERCITIUL 8:
package scanner;
import java.util.Scanner;
public class Exercitiu_8 {
public static void main(String args[]) {
          Scanner hello=new Scanner(System.in);
          int n=hello.nextInt();
          double s=0;
          for(int i=1; i<=n;i++) {</pre>
                if(i%2==0) {
                     s=s-1d/i;
                }else {
                     s=s+1d/i;
                }
          }
          System.out.println(s);
hello.close();
           }
}
package scanner;
import java.util.Scanner;
public class Exercitiu_8_while {
public static void main(String args[]) {
          Scanner hello=new Scanner(System.in);
          int n=hello.nextInt();
          double s=0;
          int i = 1:
          while(i<=n) {</pre>
                if(1%2==0) {
                     s=s-1d/i;
                i++:
          }else {
               s=s+1d/i;
i++:
     System.out.println(s);
     hello.close();
}
}
```

Problemă spre rezolvare:

De la tastatură se introduce un număr natural n. Alcătuiți un program Java ce va calcula suma și produsul primilor n termeni:

```
package scanner;
import java.util.Scanner;
public class Problema_Doua {
public static void main(String args[]) {
          Scanner hello=new Scanner(System.in);
            int n=hello.nextInt();
            double s=0;
            double p=1;
            int i=1;
            while(i<=n) {</pre>
            s=s+i/(i+1d);
            p=p*i/(i+1d);
            i++;
            }
            System.out.println(s);
            System.out.println(p);
            hello.close();
}
}
```