

Problema 7 pag. 97 – rezolvata prin for

```
import java.util.Scanner;
public class Problema7for {
    public static void main (String[]args) {
        Scanner tastatura=new Scanner(System.in);
        int n=tastatura.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")+s+" si "+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")+s1+" si "+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")+s2+" si "+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")+s3+" si "+p3);

        tastatura.close();
    }
}
```

Problema 7 pag. 97 – rezolvata prin while

```
import java.util.Scanner;
public class Problema7while {
    public static void main (String[]args) {
        Scanner tastatura=new Scanner(System.in);
        int n=tastatura.nextInt();

        int i=1;
        int s=0, p=1;
        while (i<=n) {
            s=s+(2*i-1); p=p*(2*i-1);
            i++;
        }
        System.out.println("a")+s+" si "+p);

        int a=1;
```

```

    int s1=0, p1=1;
    while (a<=n) {
        s1=s1+(2*a); p1=p1*(2*a);
        a++;
    }
    System.out.println("b")+s1+" si "+p1);

    int b=1;
    int s2=0, p2=1;
    while (b<=n) {
        s2=s2+(3*b); p2=p2*(3*b);
        b++;
    }
    System.out.println("c")+s2+" si "+p2);

    int c=1;
    int s3=0, p3=1;
    while (c<=n) {
        s3=s3+(4*c); p3=p3*(4*c);
        c++;
    }
    System.out.println("d")+s3+" si "+p3);

    tastatura.close();
}
}

```

Problema 8 pag. 97 – rezolvata prin for

```

import java.util.Scanner;
public class Problema8for {
    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-(1d/i);
            }
            else {
                sum=sum+(1d/i);
            }
        }
        System.out.println("sum="+sum);
        tastatura.close();
    }
}

```

Problema 8 pag. 97 – rezolvata prin while

```
import java.util.Scanner;
public class Problema8while {
    public static void main (String[]args) {
        Scanner tastatura=new Scanner(System.in);
        int n=tastatura.nextInt();

        double sum=0;
        int i=1;
        while (i<=n) {
            if (i%2==0) {
                sum=sum-(1d/i);
                i++;
            }
            else {
                sum=sum+(1d/i);
                i++;
            }
        }
        System.out.println("sum="+sum);
        tastatura.close();
    }
}
```

Problema din fisa cu teorie

```
import java.util.Scanner;
public class ExersareProblema {
    public static void main (String[]args) {
        Scanner tastatura=new Scanner(System.in);
        int n=tastatura.nextInt();
        double sum=0;

        for (double i=0; i<=n; i++) {
            sum=sum+(i/(i+1));
        }
        System.out.println("sum="+sum);
        tastatura.close();
    }
}
```