**Tema pentru acasa:**

**Ex 7:**

**for)** import java.util.Scanner;

public class Problema7f {

public static void main (String[]args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int a=0, b=0, c=0, d=0;

int a1=1, b1=1, c1=1, d1=1;

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

a=a+i\*2-1;

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

a1=a1\*i\*2-1;

System.out.println("a="+a);

System.out.println("a1="+a1);

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

b=b+i\*2;

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

b1=b1\*i\*2;

System.out.println("b="+b);

System.out.println("b1="+b1);

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

c=c+i\*3-1;

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

c1=c1\*i\*3;

System.out.println("c="+c);

System.out.println("c1="+c1);

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

d=d+i\*4;

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

d1=d1\*i\*4;

System.out.println("d="+d);

System.out.println("d1="+d1);

sc.close();

}

}

**While)** import java.util.Scanner;

public class Problema7w {

public static void main (String[]args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int i=1, a1=1, b1=1, c1=1, d1=1;

int a=0, b=0, c=0, d=0;

while (i<=n) {

a=a+i\*2-1; a1=a1\*(i\*2-1);

b=b+i\*2; b1=b1\*(i\*2);

c=c+i\*3; c1=c1\*(i\*3);

d=d+i\*4; d1=d1\*(i\*4);

i++;}

System.out.println("a="+a);

System.out.println("a1="+a1);

System.out.println("b="+b);

System.out.println("b1="+b1);

System.out.println("c="+c);

System.out.println("c1="+c1);

System.out.println("d="+d);

System.out.println("d1="+d1);

sc.close();

}

}

**Ex 8:**

**For)** import java.util.Scanner;

public class Problema8f {

public static void main (String[]args) {

Scanner sc= new Scanner(System.in);

int n=sc.nextInt();

double i=1;

double a=0;

if (a>0)

a=a-1/i;

i++;

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

a=a+(1/i);

System.out.println("a="+a);

sc.close()

}

}

**While)** import java.util.Scanner;

public class Problema8w {

public static void main (String[]args) {

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

double i=1;

double a=0;

if (a>0)

a=a-1/i;

i++;

while(i<=n) {

a=a+1/i;

i++; }

System.out.println("a="+a);

sc.close();

}

}

**Ex din fișier:**

**For)** import java.util.Scanner;

public class ProblemaF {

public static void main (String[]args) {

Scanner sc=new Scanner(System.in);

int a=sc.nextInt();

double s=0;

double p=1;

for (double n=1; n<=a; n++)

s=s+(n/(n+1));

for (double n=1; n<=a; n++)

p=p\*(n/(n+1));

System.out.println("s="+s);

System.out.println("p="+p);

sc.close();

}

}

**While)** import java.util.Scanner;

public class ProblemaW {

public static void main (String[]args) {

Scanner sc=new Scanner(System.in);

double a=sc.nextInt();

double n=1;

double s=0, p=1;

while (n<=a) {

s=s+(n/(n+1)); p=p\*(n/(n+1));n++; }

System.out.println("s="+s);

System.out.println("p="+p);

sc.close();

}

}