

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

```
public class MyClass {
```

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

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

```
        //Problema 1
```

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

```
        int i = 1;
```

```
        double s = 0;
```

```
        do {
```

```
            if((i%2)==0) {
```

```
                s -= 1 / (Math.sqrt(i));
```

```
            }else {
```

```
                s += 1 / (Math.sqrt(i));
```

```
            }
```

```
        }
```

```
        i++;
```

```
    }
```

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

```
    System.out.printf("%.4f%n",s);
```

```
    //Problema 2
```

```
    System.out.println("=====");
```

```

final int m = 4;

int j = 1;

while(j<=10) {

    double x = 1;

    x = j * m;

    System.out.printf("%2d",j);

    System.out.printf(" *");

    System.out.printf("%2d",m);

    System.out.printf(" =");

    System.out.printf("%3.0f%n",x);

    j++;

}

```

//Problema 3

```

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

```

```

double sum = 101;

```

```

for(int x = 99; x >= 0; x-=2) {

    sum = 1 / sum;

    sum += x;

}

sum = 1 / sum;

System.out.printf("%.4f",sum);

```

```
//Problema 4
```

```
System.out.println();
```

```
System.out.println("=====");
```

```
int num = sc.nextInt();
```

```
int fact = 1;
```

```
for(int x = 1; x <= num; x++) {
```

```
    fact = fact * x;
```

```
}
```

```
System.out.println("Factorial: " + fact);
```

```
String str = fact + "";
```

```
char[] arr = str.toCharArray();
```

```
int count = 0;
```

```
for(int x = 0; x < arr.length; x++) {
```

```
    if(arr[x] == '0') {
```

```
        count++;
```

```
    }
```

```
}
```

```
System.out.println("In " + fact + " sunt " + count + " zerouri");
```

```
//Problema 5
```

```
System.out.println("=====");
```

```
String numar = "";

for(int x = 0; x < 999; x++) {

    numar += x;

}

char[] a = numar.toCharArray();

for(int x = 0; x < a.length; x++) {

    System.out.print(a[x] + "\\t")

}

System.out.println();

int l = sc.nextInt();

for(int x = 0; x < a.length; x++) {

    if(a[x]==l) {

        System.out.print(x + " ")

    }

}

sc.close();

}
```