

1. Se calculeaza suma  $1 - \frac{1}{2^2} + \frac{1}{3^2} - \dots$

```
package ionprobleme;
import java.util.Scanner;

public class Ion {
    public static void main(String[] args) {
        Scanner read = new Scanner(System.in); int i = 1, n =
read.nextInt();
        double sum=0;
        do {
            sum += Math.pow(-1,i-1)/Math.pow(i, 2);
            i++;
        } while (i<n+1);
        sum = Math.floor(10000*sum)/10000;
        System.out.println(sum);
        read.close();
    }
}
```

2. Sa se afiseze table inmultirii pana la 10 cu 2

```
package ionprobleme;

public class Probleme {
    public static void main(String[] args) {
        final int doi = 2;
        int i = 1;
        while (i<11) {
            System.out.printf("%d%2c%2d%2c%2d%n", doi, 'x', i, '=',
(doi*i));
            i++;
        }
    }
}
```

3. Nested radicals

```
package ionprobleme;
import java.util.Scanner;

public class IonProbleme {
    public static void main(String[] args) {
        Scanner read = new Scanner(System.in);
        System.out.println("pentru 101 introduceti 50"); int n =
read.nextInt();
        n = 2*n+1; double s = 0;
        for (int i = n; i > 0; i -=2) {
            s += i;
            s = 1/s;
        }
        s = Math.floor(10000*s)/10000;
        System.out.println(s);
    }
}
```

```
}
```

4. Nr de zerouri la final de radical

```
package ionprobleme;
```

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

```
public class Ionprobleme2 {
```

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

```
        Scanner read = new Scanner(System.in); int n = -1;
```

```
        do {
```

```
            n = read.nextInt();
```

```
        } while (n < 0);
```

```
        int s = 0;
```

```
        while (n != 0) {
```

```
            n = n/5;
```

```
            s += n;
```

```
        }
```

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

```
    }
```

```
}
```

5. Problem cu string

```
package ionprobleme;
```

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

```
import java.lang.*;
```

```
public class Ionprobleme3 {
```

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

```
        StringBuilder tralala = new StringBuilder();
```

```
        String abc = "";
```

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

```
        for (int i = 1; i < 100; i++) {
```

```
            abc = Integer.toString(i);
```

```
            tralala.append(abc);
```

```
        }
```

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

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

```
        System.out.println(tralala.charAt(n-1));
```

```
        read.close();
```

```
    }
```

```
}
```