

```

import java.util.Scanner;
public class Main {
    public static void main(String args[] ) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Introduceti n = ");
        int n = sc.nextInt();
        sc.close();
        Ex1(n);
        Ex2();
        Ex3();
        Ex4(n);
    }

    public static void Ex1(int n) {
        double S=1;
        for (int i=2; i<=n; i++) {
            if (i % 2 ==1)
                S= S+(1/Math.pow(i, 2));
            else
                S=S-(1/Math.pow(i, 2));
        }
        System.out.printf("%.4f%n", S);
    }

    public static void Ex2() {
        final int numar = 5;
        int i=1;
        do {
            System.out.println(numar + "*" + i + "=" + numar*i);
            i++;
        } while(i<=10);
    }

    public static void Ex3() {
        double S=101; int i=99;
        while (i>=1) {
            S=1/S;
            S=S+i;
            i-=2;
        }
        System.out.printf("%.3f%n", 1/S);
    }

    public static void Ex4(int n) {
        int S=1;
        for (int i=1; i<=n; i++) {
            S=S*i;
        }
        int a=0;
        while (S % 10 == 0) {
            a=++a;
            S=S/10;
        }

        System.out.println(a);
    }
}

```

}

}