**import** java.util.Scanner;

**public** **class** TestDrive {

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

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

System.***out***.print("Introduceti n pentru Ex1: "); **int** n = sc.nextInt();

Ex1siEx2 unu = **new** Ex1siEx2();

unu.Exercitiul1(n);

unu.Exercitiul2();

System.***out***.print("Introduceti n pentru Ex3: "); **int** n3 = sc.nextInt();

Ex3 trei = **new** Ex3();

trei.Exercitiul3(n3);

System.***out***.print("A cata cifra din sirul lui Fibonacci doriti sa o vedeti? - "); **int** n4 = sc.nextInt();

Ex4 patru = **new** Ex4();

patru.Exercitiul4(n4);

sc.close();

}

}

**public** **class** Ex1siEx2 {

**public** **void** Exercitiul1(**int** n) {

**double** S = 0;

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

**double** imp = 1 / Math.*pow*(i, 2);

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

S = S - imp;

}

**else** **if**(i % 2 == 1) {

S = S + imp;

}

}

System.***out***.printf("Ex1.raspuns: %.6f%n", S);

}

**public** **void** Exercitiul2() {

**double** n = 103, n1 = 101; **double** S = 0;

**while**(n1 > 1) {

n = n - 2;

n1 = n1 - 2;

S = n1 + 1 / n;

}

System.***out***.println("Ex2.raspuns: " + 1 / S);

}

}

**public** **class** Ex3 {

**public** **void** Exercitiul3(**int** n3) {

System.***out***.println("Introduceti n pentru Ex3:");

**for**(**int** i = n3; i >= 1; i--) {

**for**(**int** j = 1; j <= i; j++) {

System.***out***.print(j + " ");

}

System.***out***.println();

}

}

}

**public** **class** Ex4 {

**public** **void** Exercitiul4(**int** n4) {

**int** x = 1, z = 1, y = 0; String z1 = "";

System.***out***.print("Primele 20 numere din sirul lui Fibonacci: ");

**for**(**int** i = 0; i < 20; i++) {

z1 = z1 + Integer.*toString*(z);

System.***out***.print(z);

x = y;

y = z;

z = x + y;

}

System.***out***.println();

**int** i = 0;

**while**(i < z1.length()) {

**if**(i == (n4 - 1)) {

System.***out***.println("Ex4.raspuns: " + z1.charAt(i));

}

i++;

}

}

}