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import java.util.Scanner;

public class forandwhile {

    public static void main(String[] args) {

        Scanner apple = new Scanner (System.in) ;

        //Problema 7 pagina 97 din manual//

        int S1=0 , P1=1 , n1 , S2=0 , P2=1 , n2 , S3=0 , P3=1 , n3 , S4=0 , P4=1 , n4 ;

        System.out.print("n1=");

        n1 = apple.nextInt () ;

        for(int i=1 ; i<=n1 ; i++) {

            S1=S1+(2*i-1) ;

            P1=P1*(2*i-1) ; }

        System.out.println("S1="+S1) ;

        System.out.println("P1="+P1) ;

        System.out.print("n2=");

        n2 = apple.nextInt () ;

        for(int i=1 ; i<=n2 ; i++) {

            S2=S2+(2*i) ;

            P2=P2*(2*i) ; }

        System.out.println("S2="+S2) ;

        System.out.println("P2="+P2) ;

        System.out.print("n3=");

        n3 = apple.nextInt () ;

        for(int i=1 ; i<=n3 ; i++) {

            S3=S3+(i*3) ;

            P3=P3*(i*3) ; }

        System.out.println("S3="+S3) ;

        System.out.println("P3="+P3) ;

        System.out.print("n4=");

        n4 = apple.nextInt () ;

        for(int i=1 ; i<=n4 ; i++) {

            S4=S4+(i*4) ;

            P4=P4*(i*4) ; }
    
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        System.out.println("S4="+S4) ;

        System.out.println("P4="+P4) ;

//Problema 8 pagina 97 din manual//

        System.out.print("n5=");

        double n5 = apple.nextDouble () ;

        double S5=0;

        for(double i=1; i<=n5; i++) {

            if(i%2 ==0) {

                S5=S5-(1/i); }

            else {

                S5=S5+(1/i) ; } }

        System.out.println("S5="+S5) ;

//Problema din fisa de pe studii//

        System.out.print("n6=") ;

        int n6=apple.nextInt() ;

        double S6=0 , P6=1 ;

        double i=1;

        while (i<=n6) {

            S6=S6+(i/(i+1)) ;

            P6=P6*(i/(i+1));

            i++;}

        System.out.println("S6="+S6) ;

        System.out.println("P6="+P6) ;

        apple.close(); } }

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