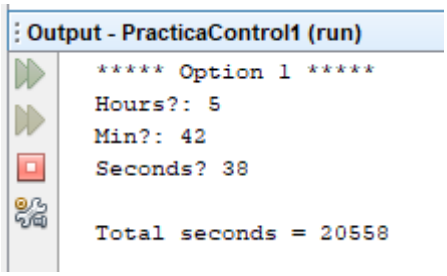
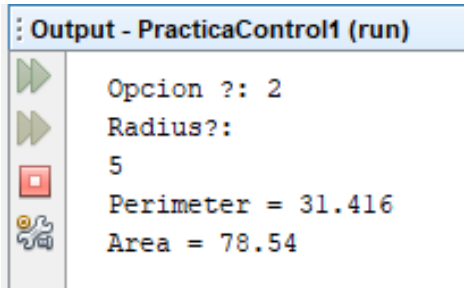
EJERCICIO 1

```
private static void p1() {
    System.out.print("Hours?: ");
    int hours = keyboard.nextInt();
    System.out.print("Min?: ");
    int min = keyboard.nextInt();
    System.out.print("Seconds? ");
    int Sec = keyboard.nextInt();
    System.out.println("");
    int hSec = hours * 3600;
    int mSec = min * 60;
    int totalSec = hSec + mSec + Sec;
    System.out.println("Total seconds = " + totalSec);
    System.out.println("");
 }
```



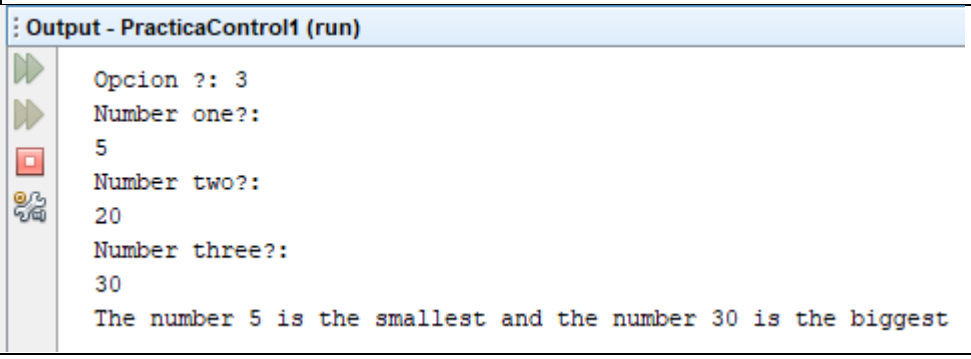
EJERCICIO 2

```
private static void p2() {
      double pi = 3.1416;
      System.out.println("Radius?: ");
      float radius = keyboard.nextFloat();
      float per = (float) (2 * pi * radius);
      float area = (float) (pi * Math.pow(radius, 2));
      System.out.println("Perimeter = " + per);
      System.out.println("Area = " + area);
   }
```



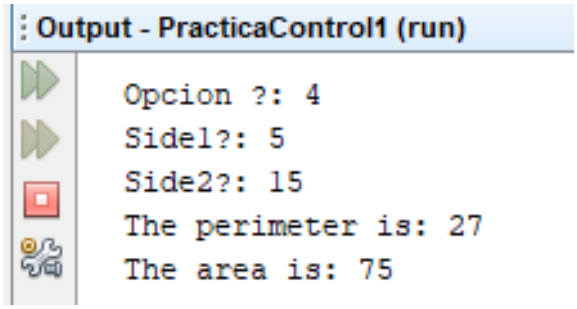
EJERCICIO 3

```
private static void p3() {
    System.out.println("Number one?: ");
    int n1 = keyboard.nextInt();
    System.out.println("Number two?: ");
    int n2 = keyboard.nextInt();
    System.out.println("Number three?: ");
    int n3 = keyboard.nextInt();
    if (n1 > n2 && n1 > n3 && n2 > n3) {
        System.out.println("The number " + n1 + " is the smallest and the number
" + n3 + " is the biggest");
    } else if (n1 > n2 && n1 > n3 && n3 > n2) {
        System.out.println("The number " + n1 + " is the smallest and the number
" + n2 + " is the biggest");
    } else if (n2 > n1 && n2 > n3 && n1 > n3) {
        System.out.println("The number " + n2 + " is the smallest and the number
" + n3 + " is the biggest");
    } else if (n2 > n1 && n2 > n3 && n3 > n1) {
        System.out.println("The number " + n2 + " is the smallest and the number
" + n1 + " is the biggest");
    } else if (n3 > n1 && n3 > n2 && n1 > n2) {
        System.out.println("The number " + n3 + " is the smallest and the number
" + n2 + " is the biggest");
    } else if (n3 > n1 && n3 > n2 && n2 > n1) {
        System.out.println("The number " + n1 + " is the smallest and the number
" + n3 + " is the biggest");
    }
}
```



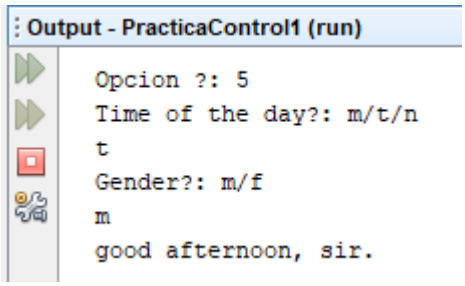
EJERCICIO 4

```
private static void p4() {
    System.out.print("Side1?: ");
    int s1 = keyboard.nextInt();
    System.out.print("Side2?: ");
    int s2 = keyboard.nextInt();

    int per = (s1 * 2) + (s2 + 2);
    int area = s1 * s2;
    System.out.println("The perimeter is: " + per);
    System.out.println("The area is: " + area);
 }
```



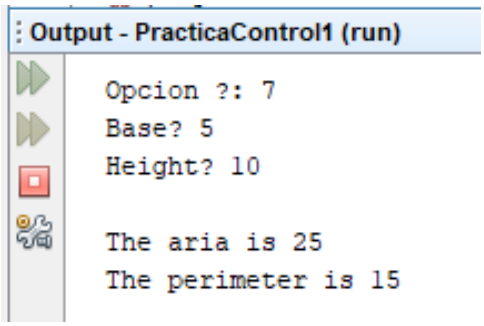
EJERCICIO 5

```
private static void p5() {
  System.out.println("Time of the day?: m/t/n");
  String day = keyboard.next();
  System.out.println("Gender?: m/f");
  String sex = keyboard.next();

  if ("m".equals(sex) && "m".equals(day)) {
     System.out.println("good day, sir.");
  } else if ("m".equals(sex) && "t".equals(day)) {
     System.out.println("good afternoon, sir.");
  } else if ("m".equals(sex) && "m".equals(day)) {
     System.out.println("good night, sir.");
  } else if ("f".equals(sex) && "m".equals(day)) {
     System.out.println("good day, lady.");
  } else if ("f".equals(sex) && "t".equals(day)) {
     System.out.println("good afternoon, lady.");
  } else if ("f".equals(sex) && "m".equals(day)) {
     System.out.println("good night, lady.");
  } else {
     System.out.println("Incorrect answer");
  }
}
```



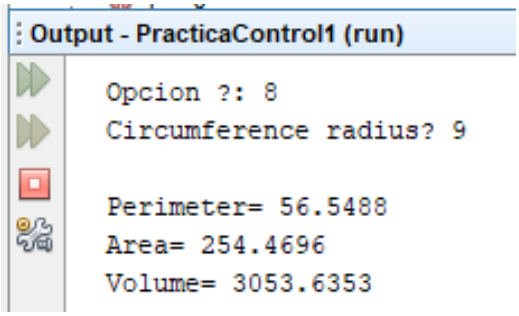
EJERCICIO 7

```
private static void p7() {
    System.out.print("Base? ");
    int b = keyboard.nextInt();
    System.out.print("Height? ");
    int h = keyboard.nextInt();
    System.out.println("");
    int area = (b * h) / 2;
    int per = b * 3;
    System.out.println("The aria is " + area);
    System.out.println("The perimeter is " + per);
}
```



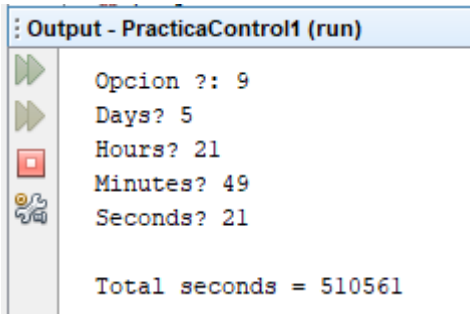
EJERCICIO 8

```
private static void p8() {
    System.out.print("Circumference radius? ");
    float r = keyboard.nextFloat();
    float per = (float) (2 * 3.1416 * r);
    float area = (float) (3.1416 * Math.pow(r, 2));
    float vol = (float) (4 * 3.1416 * Math.pow(r, 3) / 3);
    System.out.println("");
    System.out.println("Perimeter= " + per);
    System.out.println("Area= " + area);
    System.out.println("Volume= " + vol);
}
```



EJERCICIO 9

```
private static void p9() {
        System.out.print("Days? ");
        int D = keyboard.nextInt();
        System.out.print("Hours? ");
        int H = keyboard.nextInt();
        System.out.print("Minutes? ");
        int Min = keyboard.nextInt();
        System.out.print("Seconds? ");
        int Sec = keyboard.nextInt();
        System.out.println("");
        int dSec = D * 86400;
        int hSec = H * 3600;
        int mSec = Min * 60;
        int totalSec = dSec + hSec + mSec + Sec;
        System.out.println("Total seconds = " + totalSec);
    }
```



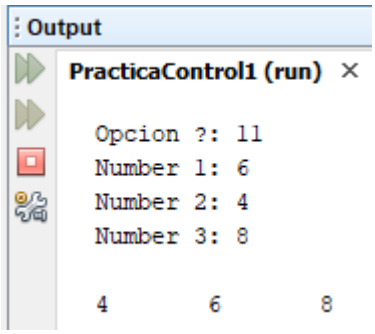
EJERCICIO 10

```
private static void p10() {
      System.out.print("Number 1? ");
      int n1 = keyboard.nextInt();
      System.out.print("Number 2? ");
      int n2 = keyboard.nextInt();
      for (int i = n1; i <= n2; i++) {
         if (i % 2 == 0) {

         } else {
            System.out.print(i + "\t");
         }
      }

   }
```

```
Opcion ?: 10
Number 1? 20
Number 2? 70
21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69
```

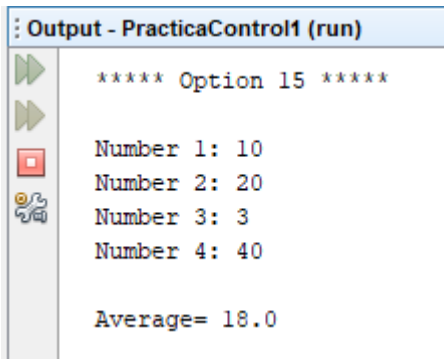
EJERCICIO 11

```
private static void p11() {
      System.out.print("Number 1: ");
      int n1 = keyboard.nextInt();
      System.out.print("Number 2: ");
      int n2 = keyboard.nextInt();
      System.out.print("Number 3: ");
      int n3 = keyboard.nextInt();
      System.out.println("");
      if (n1 > n2 && n1 > n3 && n2 > n3) {
         System.out.println(n3 + " " + n2 + " " + n1);
      } else if (n1 > n2 && n1 > n3 && n3 > n2) {
         System.out.println(n2 + "\t" + n3 + "\t" + n1);
      } else if (n2 > n1 && n2 > n3 && n1 > n3) {
         System.out.println(n3 + "\t" + n1 + "\t" + n2);
      } else if (n2 > n1 && n2 > n3 && n3 > n1) {
         System.out.println(n1 + "\t" + n3 + "\t" + n2);
      } else if (n3 > n1 && n3 > n2 && n1 > n2) {
         System.out.println(n2 + "\t" + n1 + "\t" + n3);
      } else if (n3 > n1 && n3 > n2 && n2 > n1) {
         System.out.println(n1 + "\t" + n2 + "\t" + n3);
      }

   }
```



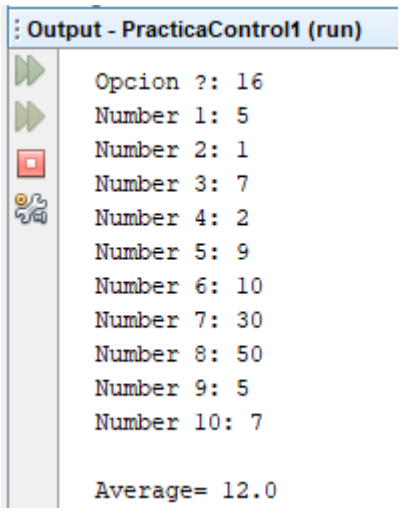
EJERCICIO 15

```
private static void p15() {
    System.out.print("Number 1: ");
    int n1 = keyboard.nextInt();
    System.out.print("Number 2: ");
    int n2 = keyboard.nextInt();
    System.out.print("Number 3: ");
    int n3 = keyboard.nextInt();
    System.out.print("Number 4: ");
    int n4 = keyboard.nextInt();
    float m = (n1 + n2 + n3 + n4) / 4;
    System.out.println("Average= " + m);
}
```



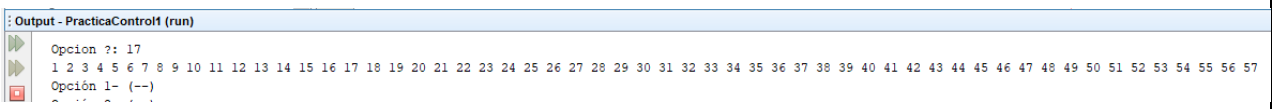
EJERCICIO 16

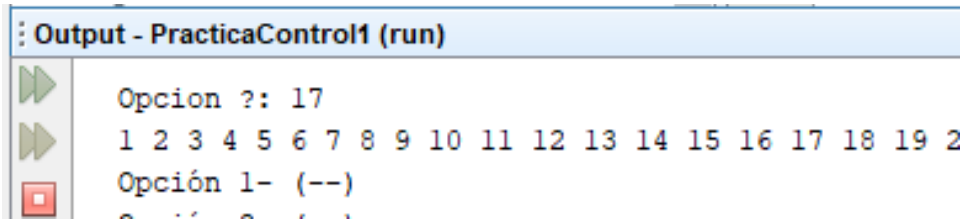
```
private static void p16() {
    int[] n = new int[10];
    for (int i = 0; i < 10; i++) {
       System.out.print("Number " + (i + 1) + ": ");
       n[i] = keyboard.nextInt();
    }
    System.out.println("");
    float m = (n[0] + n[1] + n[2] + n[3] + n[4] + n[5] + n[6] + n[7]
          + n[8] + n[9]) / 10;
    System.out.println("Average= " + m);
 }
```



EJERCICIO 17

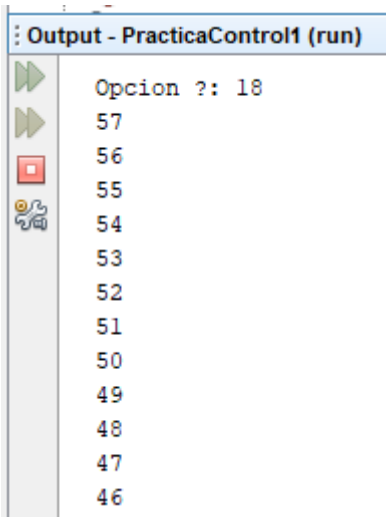
```
private static void p17() {
    for (int i = 0; i < 57; i++) {
        System.out.print((i + 1) + "\t");
    }
}
```





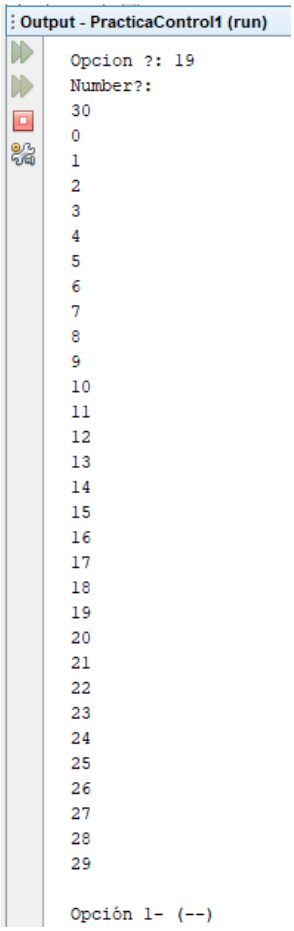
EJERCICIO 18

```
private static void p18() {
    for (int i = 57; i > 0; i--) {
        System.out.println(i + "\t");
    }
}
```



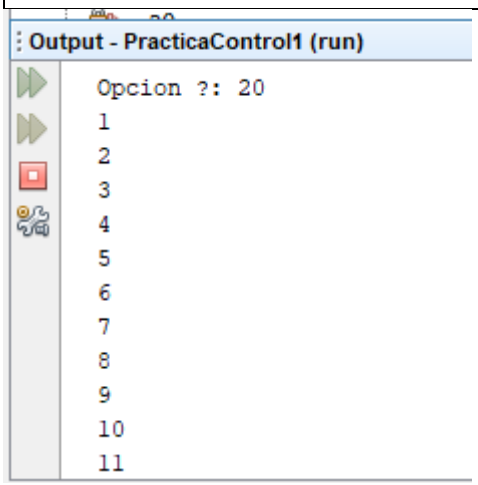
EJERCICIO 19

```
private static void p19() {
    System.out.println("Number?: ");
    int n = keyboard.nextInt();
    for (int i = 0; i < n; i++) {
        System.out.println(i + "\t");
    }
}
```



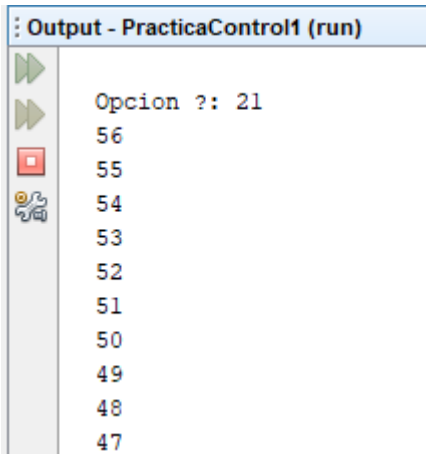
EJERCICIO 20

```
private static void p20() {
    int i = 0;
    while (i < 57) {
      System.out.println(i + 1);
      i = i + 1;
    }
  }
```



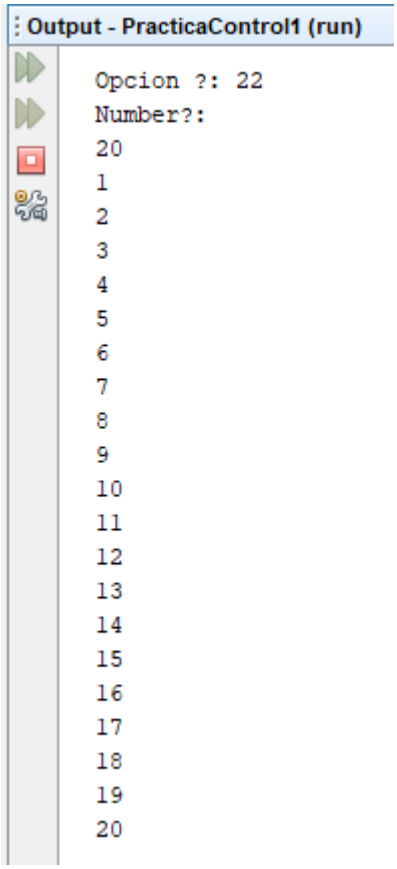
EJERCICIO 21

```
private static void p21() {
    int i = 57;
    while (i > 0) {
        System.out.println(i - 1);
        i = i - 1;
    }
}
```



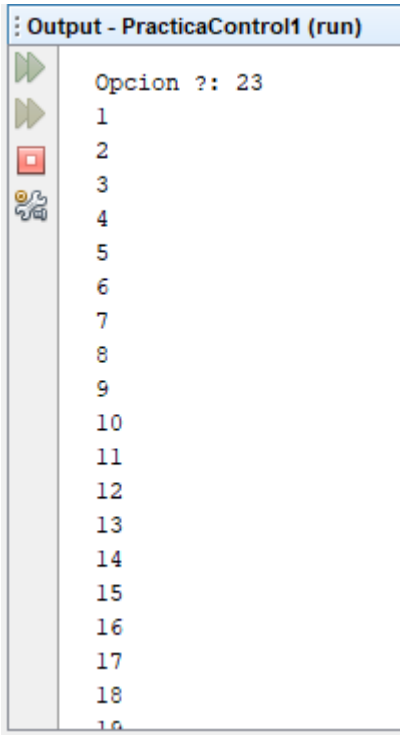
EJERCICIO 22

```
private static void p22() {
    System.out.println("Number?: ");
    int n = keyboard.nextInt();
    int i = 0;
    while (i < n) {
        System.out.println(i + 1 + "\t");
        i = i + 1;
    }
}
```



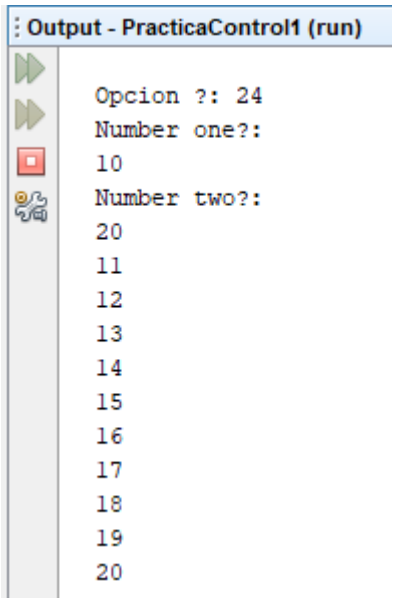
EJERCICIO 23

```
private static void p23() {
    int i = 0;
    do {
       System.out.println(i + 1 + "\t");
    } while (i < 57);
  }
```



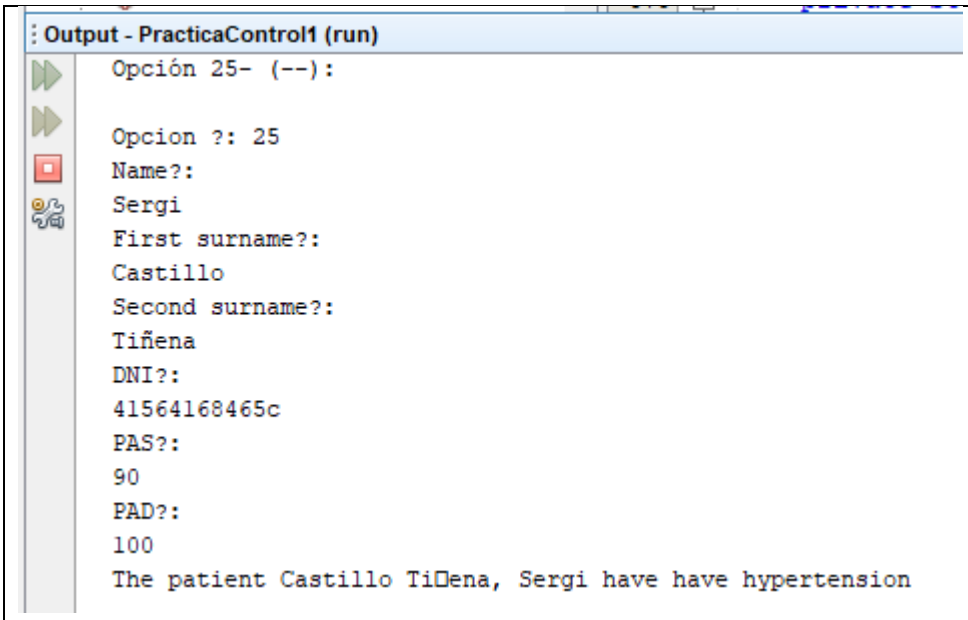
EJERCICIO 24

```
private static void p24() {
    System.out.println("Number one?: ");
    int n1 = keyboard.nextInt();
    System.out.println("Number two?: ");
    int n2 = keyboard.nextInt();
    if (n1 > n2) {
        do {
            System.out.println(n2 + 1 + "\t");
            n2 = n2 + 1;
        } while (n1 > n2);
    } else {
        do {
            System.out.println(n1 + 1 + "\t");
            n1 = n1 + 1;
        } while (n2 > n1);
    }
}
```



EJERCICIO 25

```
  private static void p25() {
      System.out.println("Name?: ");
      String name = keyboard.next();
      System.out.println("First surname?: ");
      String surname1 = keyboard.next();
      System.out.println("Second surname?: ");
      String surname2 = keyboard.next();
      System.out.println("DNI?: ");
      String dni = keyboard.next();
      System.out.println("PAS?: ");
      float pas = keyboard.nextFloat();
      System.out.println("PAD?: ");
      float pad = keyboard.nextFloat();

      if (pas > 120 || pad > 80) {
         System.out.println("The patient " + surname1 + " " + surname2 + ", " +
name + " have have hypertension");
      }
      else if (pas < 55 || pad < 55){
         System.out.println("The patient " + surname1 + " " + surname2 + ", " +
name + " have have hypotension");
      }
      else if (pas > 84 && pas <120  || pad > 55 && pad <80) {
         System.out.println("The patient " + surname1 + " " + surname2 + ", " +
name + " have normal blood pressure");
      }
   }
```


Output - PracticaControl1 (run)
Opción 25- (--):
Opcion ?: 25
Name?:
Sergi
First surname?:
Castillo
Second surname?:
Tiñena
DNI?:
41564168465c
PAS?:
90
PAD?:
100
The patient Castillo Ti□ena, Sergi have have hypertension

Switch

```
public static void main(String[] args) throws IOException {
    keyboard.useDelimiter("\n");
    int option = -1;
    do {
      userMenu();
      option = keyboard.nextInt();
      switch (option) {//inicio switch
        case 1:
          p1();
          break;
        case 2:
          p2();
          break;
        case 3:
          p3();
          break;
        case 4:
          p4();
          break;
        case 5:
          p5();
          break;
        case 6:
          p6();
          break;
        case 7:
          p7();
          break;
        case 8:
          p8();
          break;
        case 9:
          p9();
          break;
        case 10:
          p10();
          break;
        case 11:
          p11();
```

```
            break;
        case 12:
            p12();
            break;
        case 13:
            p13();
            break;
        case 14:
            p14();
            break;
        case 15:
            p15();
            break;
        case 16:
            p16();
            break;
        case 17:
            p17();
            break;
        case 18:
            p18();
            break;
        case 19:
            p19();
            break;
        case 20:
            p20();
            break;
        case 21:
            p21();
            break;
        case 22:
            p22();
            break;
        case 23:
            p23();
            break;
        case 24:
            p24();
            break;
```

```
            case 25:
               p25();
               break;
            default:
               System.out.println("Opcion no valida");
         }//fin switch
      } while (option != 10);
   }
```

```
private static void userMenu() {
    System.out.println();
    System.out.println("Opción 1- (--)");
    System.out.println("Opción 2- (--)");
    System.out.println("Opción 3-(--)");
    System.out.println("Opción 4-(--)");
    System.out.println("Opción 5- (--)");
    System.out.println("Opción 6- (--):");
    System.out.println("Opción 7- (--):");
    System.out.println("Opción 8- (--)):");
    System.out.println("Opción 9- (--):");
    System.out.println("Opción 10- (--):");
    System.out.println("Opción 11- (--):");
    System.out.println("Opción 12- (--):");
    System.out.println("Opción 13- (--):");
    System.out.println("Opción 14- (--):");
    System.out.println("Opción 15- (--):");
    System.out.println("Opción 16- (--):");
    System.out.println("Opción 17- (--):");
    System.out.println("Opción 18- (--):");
    System.out.println("Opción 19- (--):");
    System.out.println("Opción 20- (--):");
    System.out.println("Opción 21- (--):");
    System.out.println("Opción 22- (--):");
    System.out.println("Opción 23- (--):");
    System.out.println("Opción 24- (--):");
```

```
        System.out.println("Opción 25- (--):");
        System.out.print("\nOpcion ?: ");
    }
}
```

EJERCICIO 10

```
private static void p10() {
      System.out.print("Number 1? ");
      int n1 = keyboard.nextInt();
      System.out.print("Number 2? ");
      int n2 = keyboard.nextInt();
      for (int i = n1; i <= n2; i++) {
         if (i % 2 == 0) {

         } else {
            System.out.print(i + "\t");
         }
      }

   }
```

EJERCICIO 10

```
private static void p10() {
      System.out.print("Number 1? ");
      int n1 = keyboard.nextInt();
      System.out.print("Number 2? ");
      int n2 = keyboard.nextInt();
      for (int i = n1; i <= n2; i++) {
         if (i % 2 == 0) {

         } else {
            System.out.print(i + "\t");
         }
      }

   }
```

EJERCICIO 10

```
private static void p10() {
      System.out.print("Number 1? ");
      int n1 = keyboard.nextInt();
      System.out.print("Number 2? ");
      int n2 = keyboard.nextInt();
      for (int i = n1; i <= n2; i++) {
         if (i % 2 == 0) {

         } else {
            System.out.print(i + "\t");
         }
      }

   }
```