



**Universidad Autónoma De Tamaulipas**

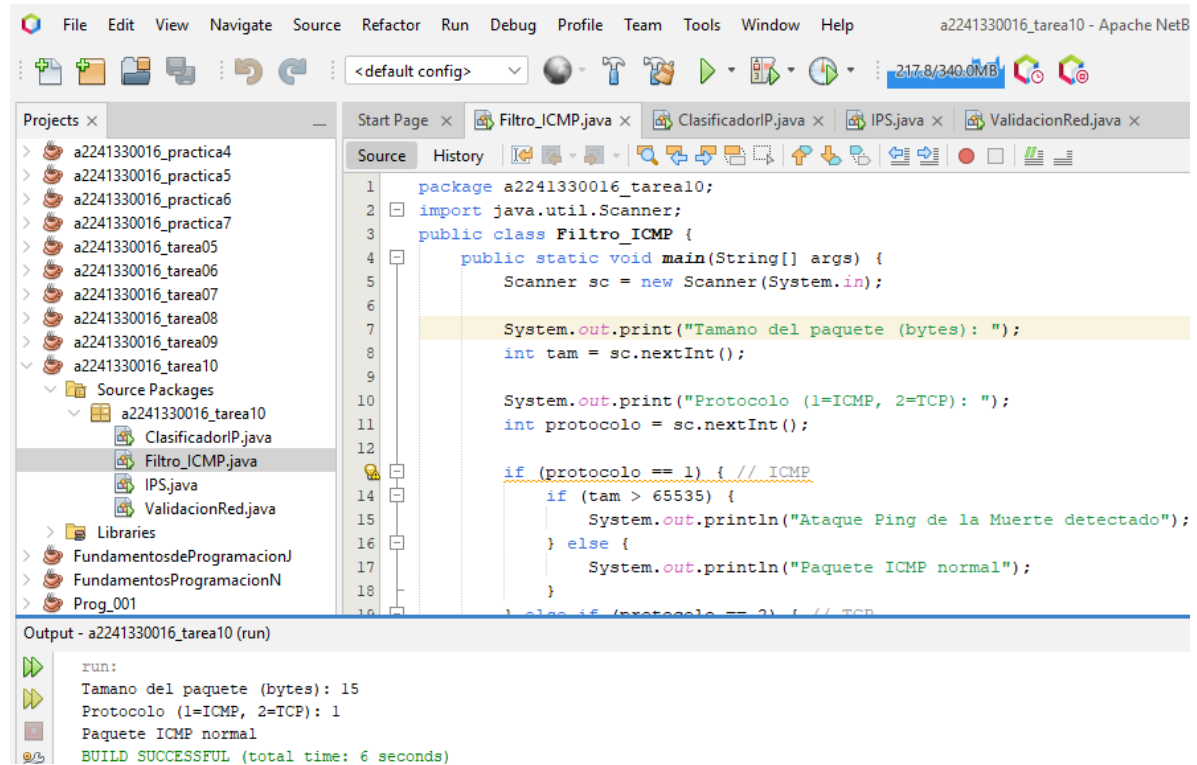
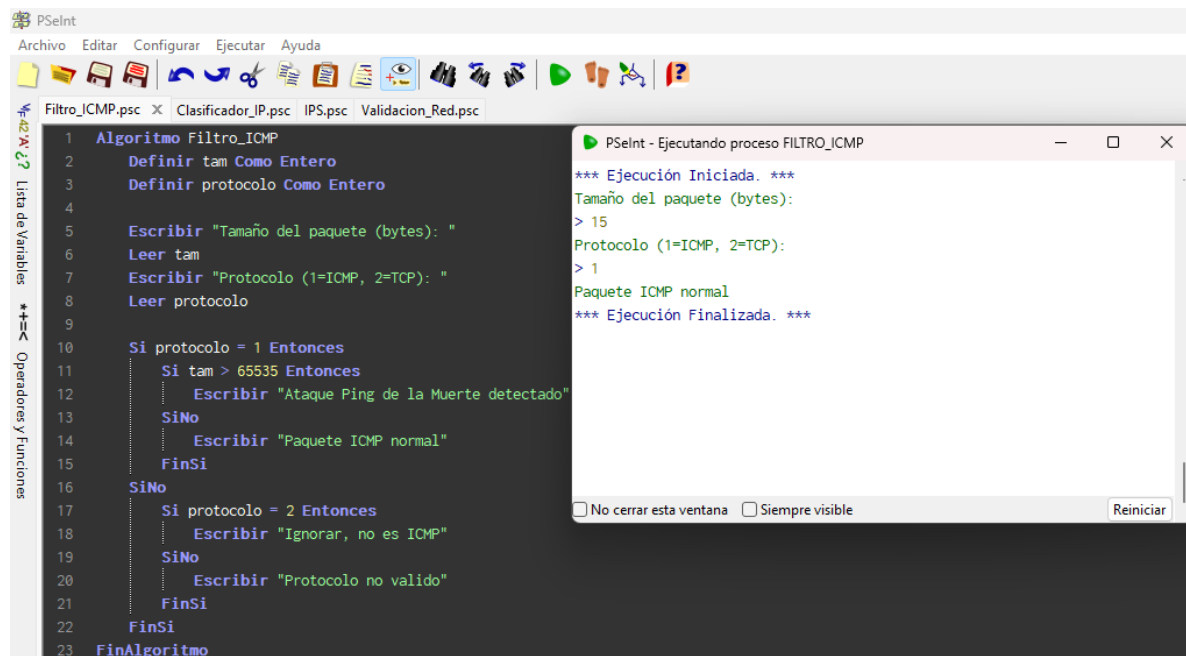
**Fundamentos de Programación**

**1-N**

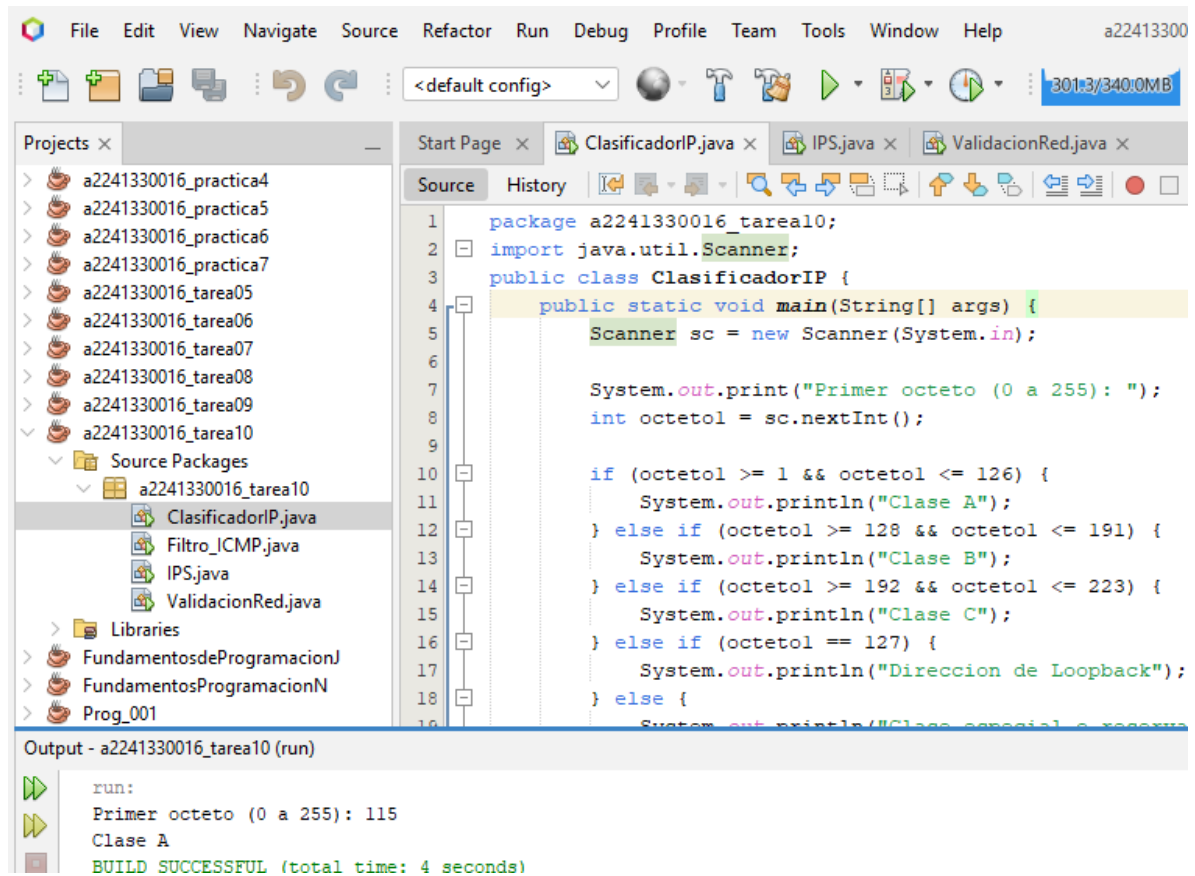
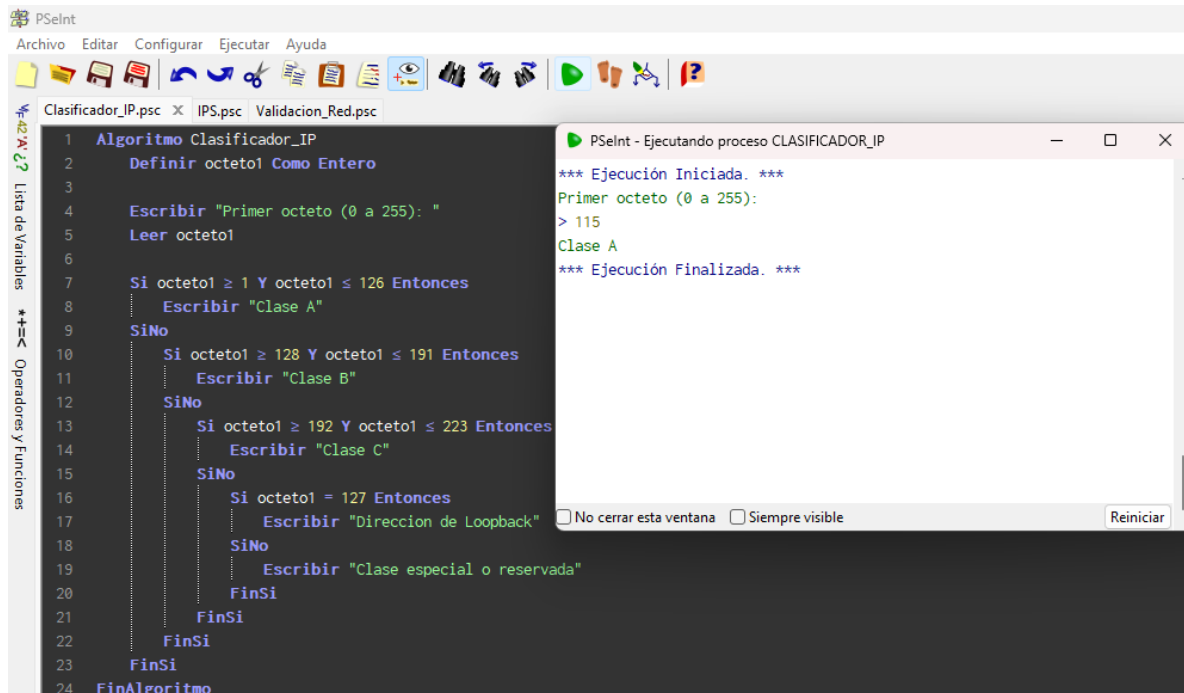
**Tarea 10**

**Molina Meneses Diego**

## Filtro\_ICMP:



## ClasificadorIP:



## IPS:

The screenshot shows the PSeInt IDE with a project named 'IPS.psc' and a file named 'Validacion\_Red.psc'. The code is written in pseudocode and describes an algorithm for handling failed login attempts (IPS). The code is as follows:

```
1 Algoritmo IPS
2 Definir intentos_fallidos Como Entero
3 Definir es_ip_conocida Como Logico
4 Escribir "Intentos fallidos: "
5 Leer intentos_fallidos
6 Escribir "¿Es IP conocida? (1=Si, 0=No): "
7 Leer es_ip_conocida
8 Si es_ip_conocida = Falso Entonces
9     Si intentos_fallidos > 3 Entonces
10         Escribir "Bloquear IP permanentemente"
11     SiNo
12         Si intentos_fallidos ≥ 1 Y intentos_fallidos ≤ 3 Entonces
13             Escribir "Solicitar Captcha"
14         SiNo
15             Escribir "Permitir reintento"
16         FinSi
17     FinSi
18 SiNo
19     Si intentos_fallidos > 10 Entonces
20         Escribir "Bloquear temporalmente por 15 min"
21     SiNo
22         Si intentos_fallidos > 5 Entonces
23             Escribir "Alertar al admin"
24         SiNo
25             Escribir "Permitir reintento"
26         FinSi
27     FinSi
28 FinSi
```

The execution window shows the following output:

```
*** Ejecución Iniciada. ***
Intentos fallidos:
> 2
¿Es IP conocida? (1=Si, 0=No):
> 1
Permitir reintento
*** Ejecución Finalizada. ***
```

At the bottom of the execution window, there are checkboxes for 'No cerrar esta ventana' and 'Siempre visible', and a 'Reiniciar' button.

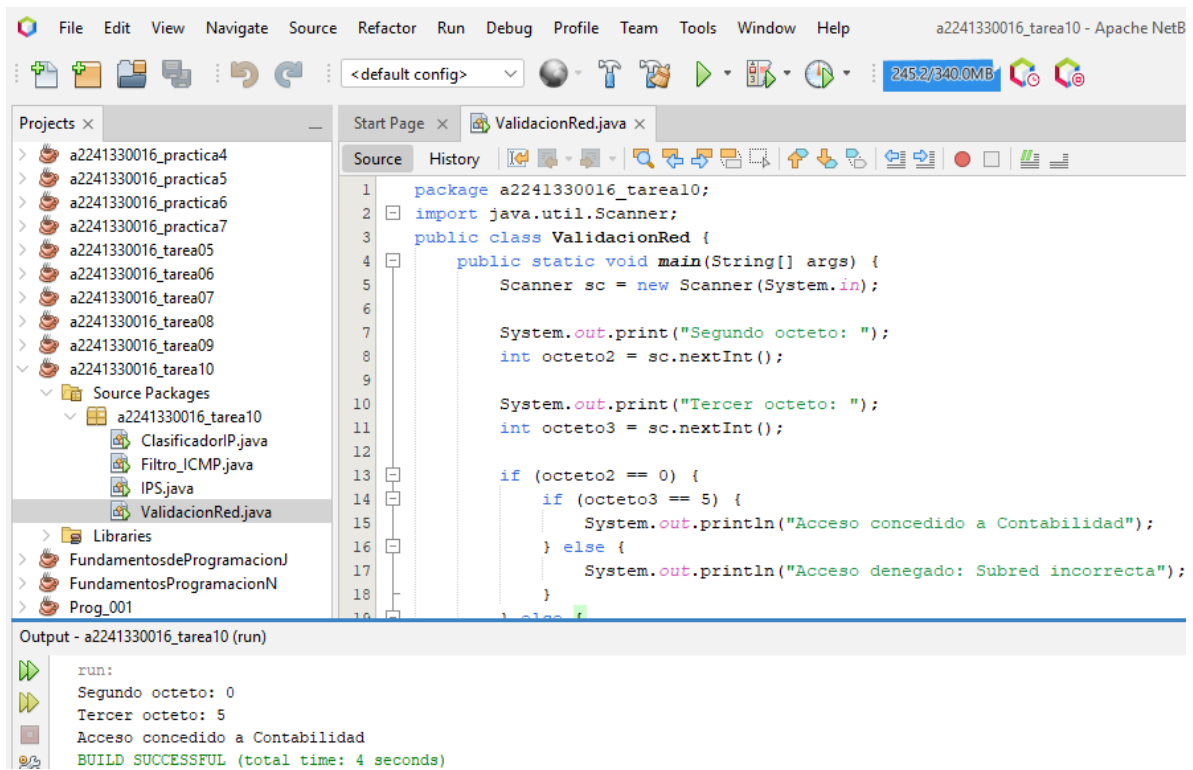
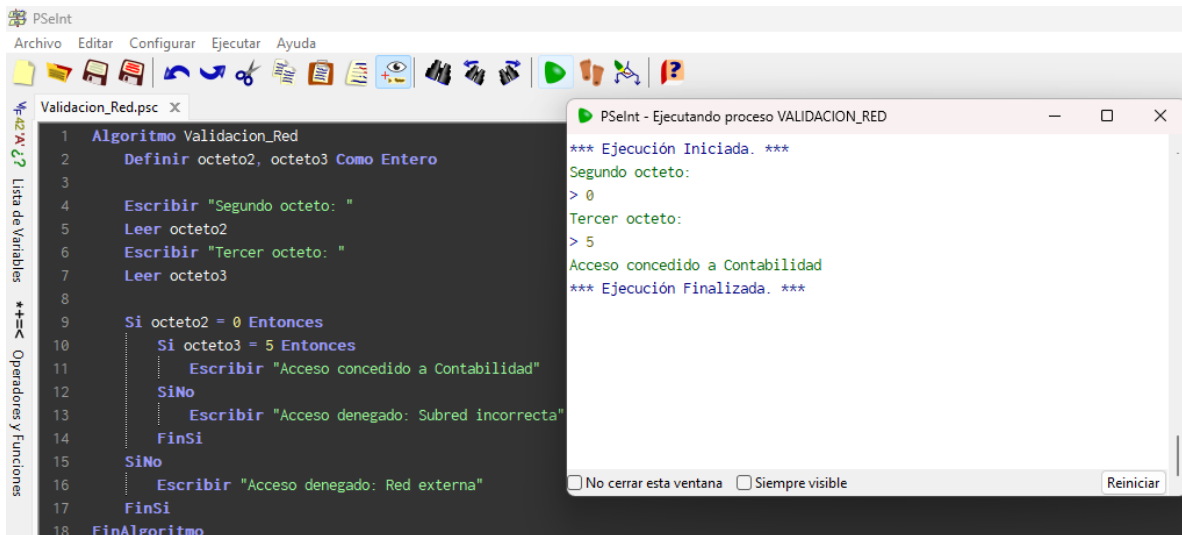
The screenshot shows the IntelliJ IDEA IDE with a project named 'a2241330016\_tarea10'. The code is written in Java and describes the implementation of the IPS algorithm. The code is as follows:

```
1 package a2241330016_tarea10;
2 import java.util.Scanner;
3 public class IPS {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6
7         System.out.print("Intentos fallidos: ");
8         int intentos = sc.nextInt();
9
10        System.out.print("¿Es IP conocida? (1=Si, 0=No): ");
11        int conocidaNum = sc.nextInt();
12        boolean esConocida = (conocidaNum == 1);
13
14        if (!esConocida) {
15            if (intentos > 3) {
16                System.out.println("Bloquear IP permanentemente");
17            } else if (intentos >= 1 && intentos <= 3) {
18                System.out.println("Solicitar Captcha");
19            } else {
20                System.out.println("Permitir reintento");
21            }
22        } else {
23            if (intentos > 10) {
24                System.out.println("Bloquear temporalmente por 15 min");
25            } else if (intentos > 5) {
26                System.out.println("Alertar al admin");
27            } else {
28                System.out.println("Permitir reintento");
29            }
30        }
31    }
32 }
```

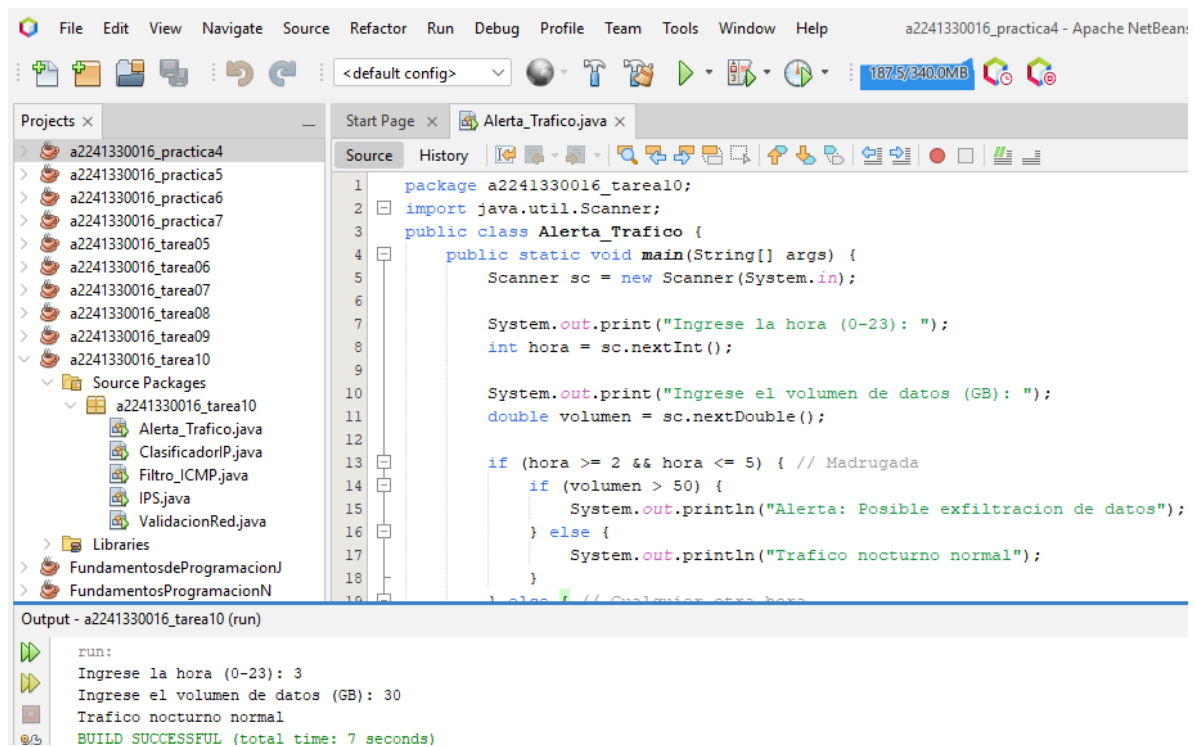
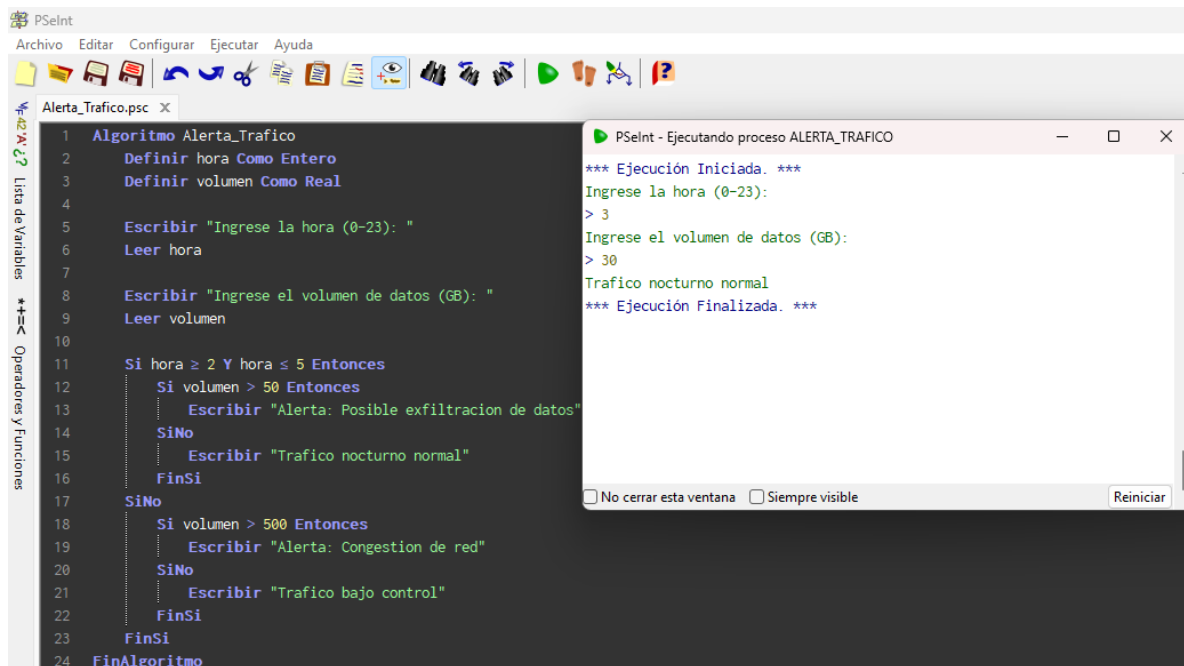
The output window shows the following output:

```
run:
Intentos fallidos: 2
¿Es IP conocida? (1=Si, 0=No): 1
Permitir reintento
BUILD SUCCESSFUL (total time: 6 seconds)
```

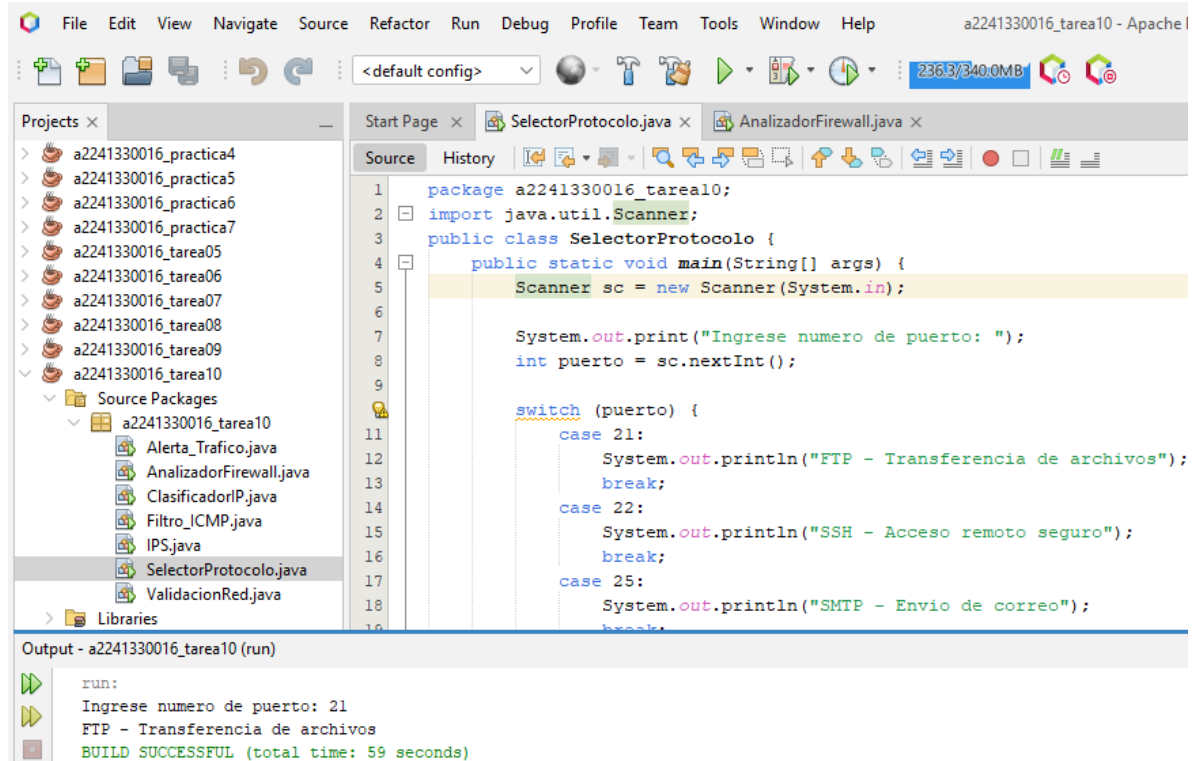
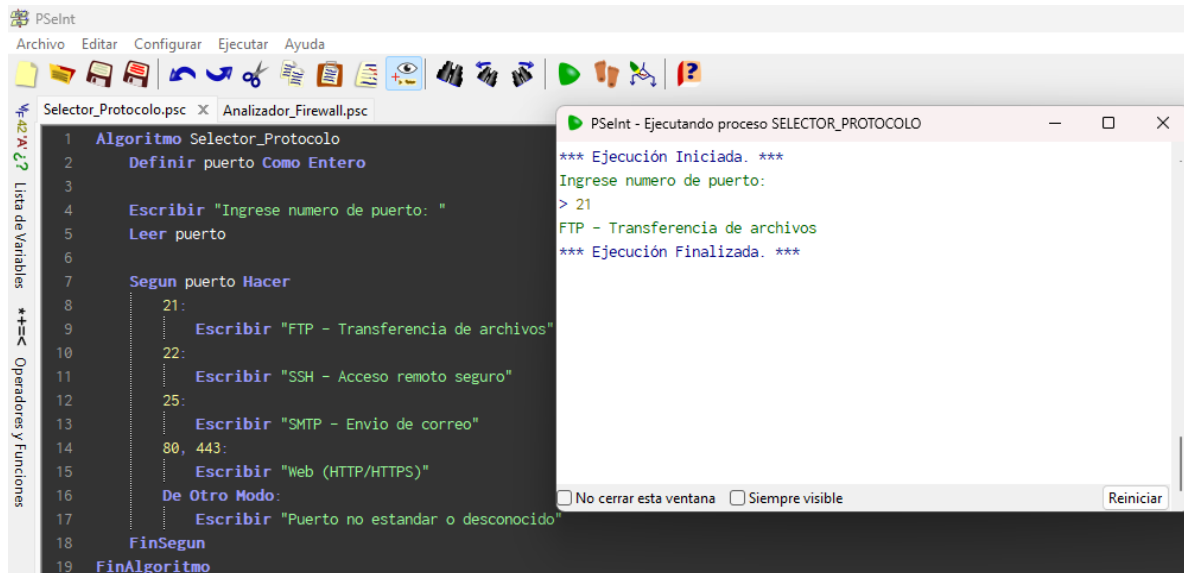
## ValidacionRed:



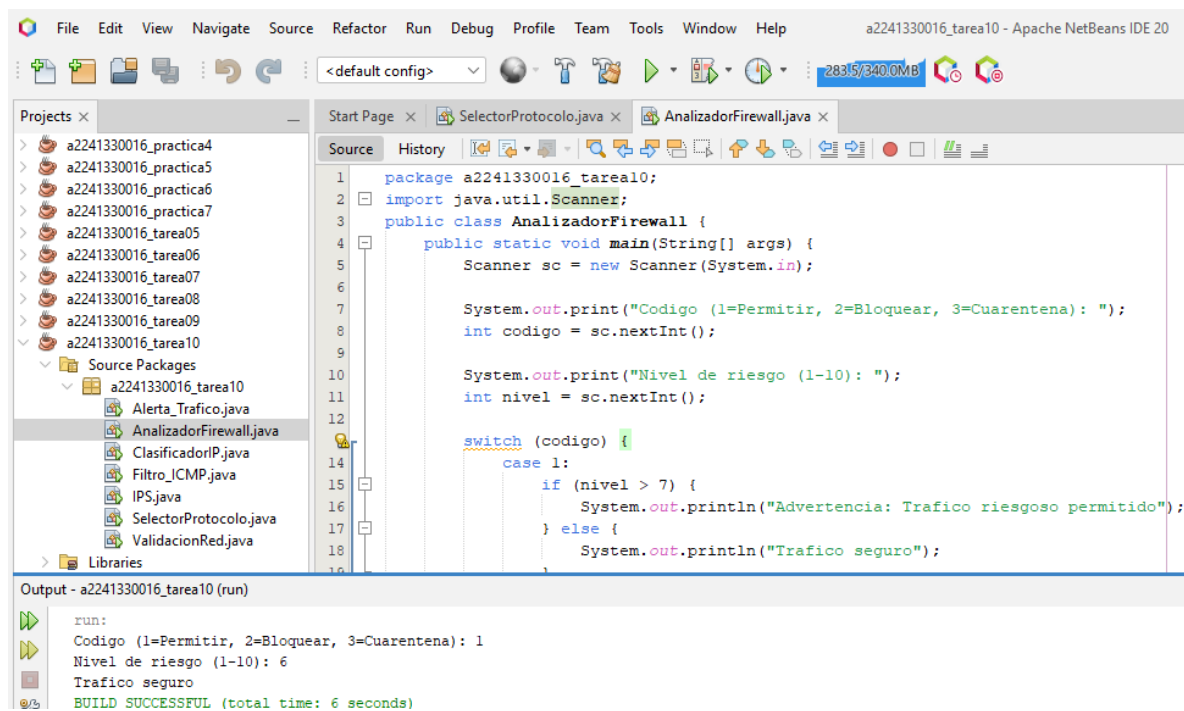
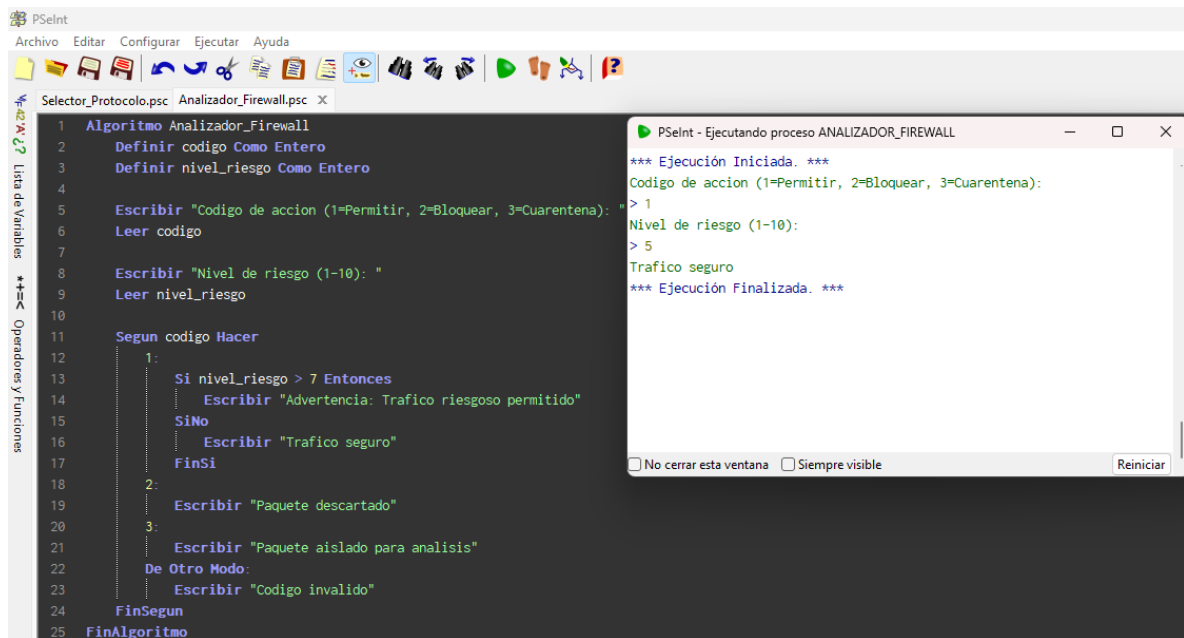
## Alerta\_Trafico:



**SelectorProtocolo:**

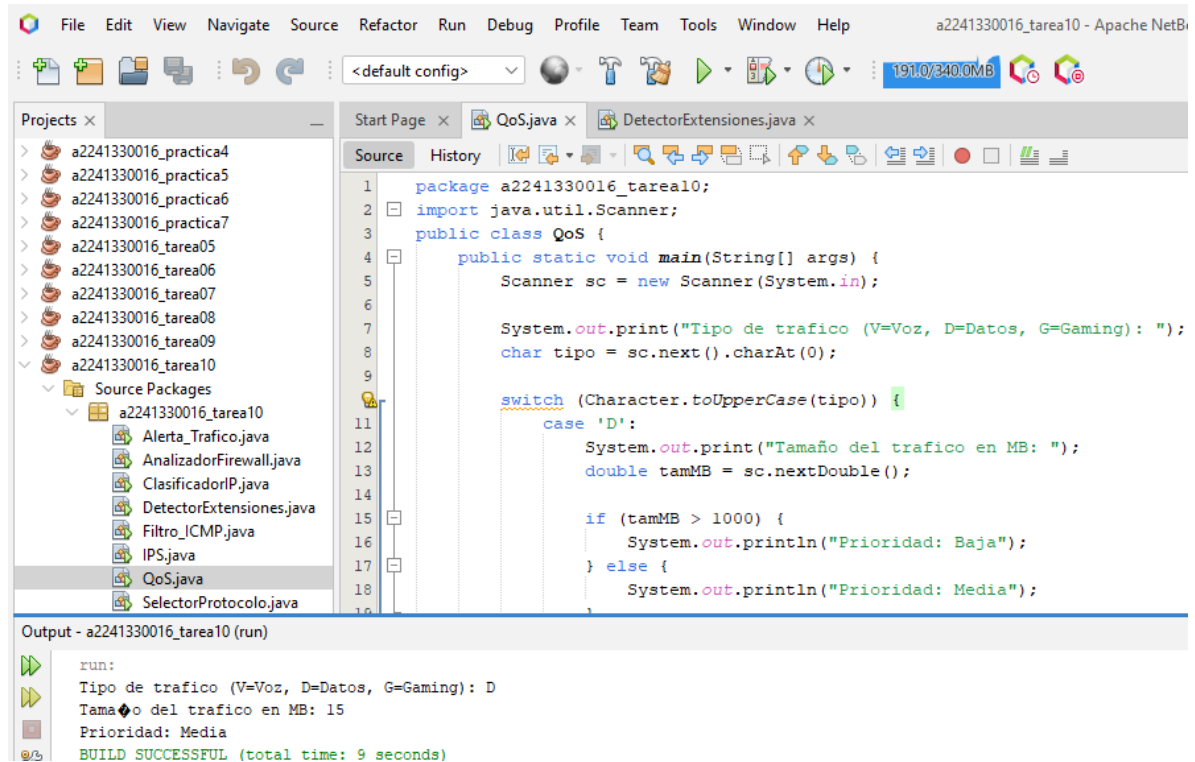
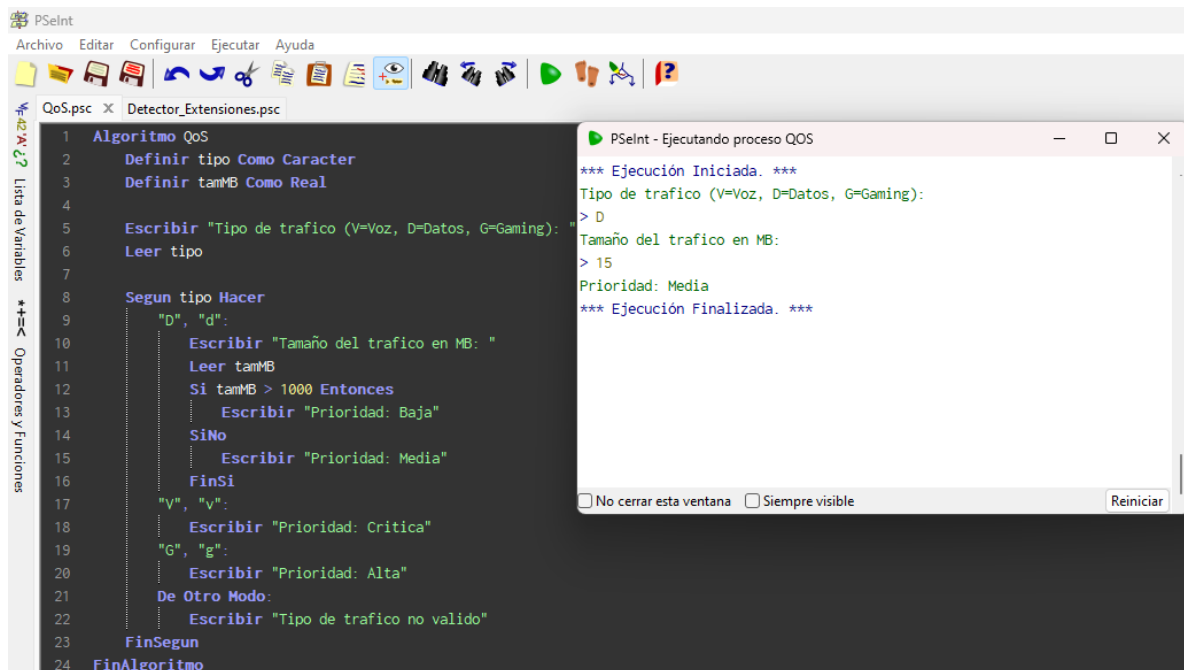


**Analizador\_Firewall:**

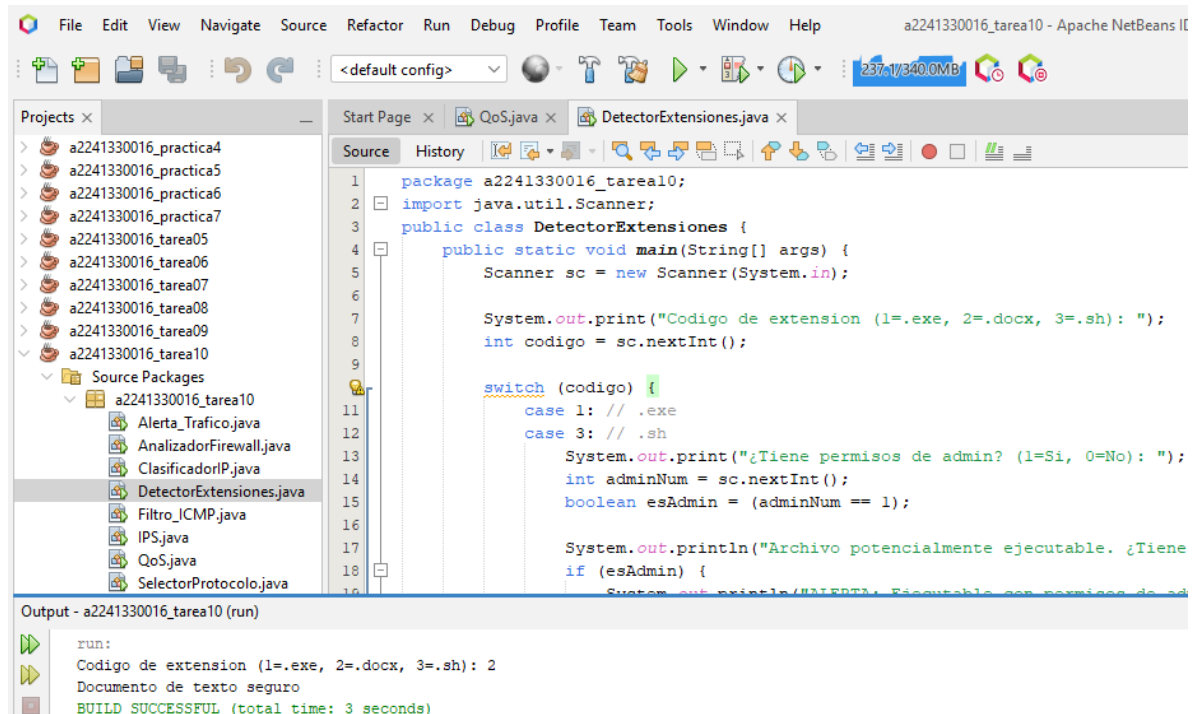
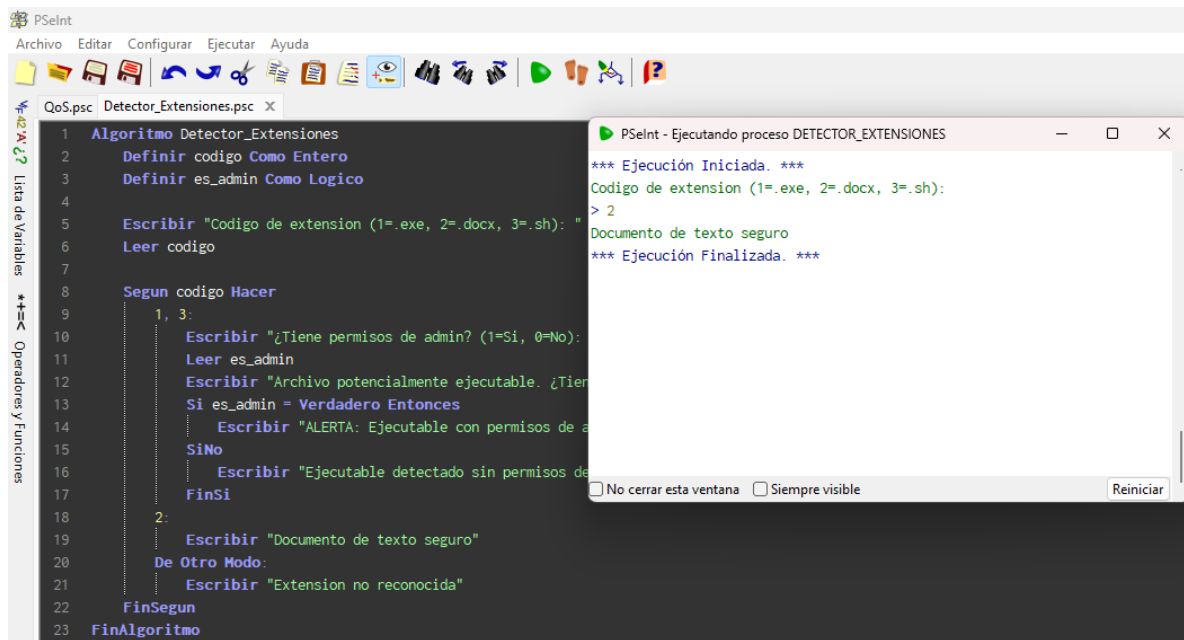


QoS:





**DetectorExensiones:**



**MenuHerramientasRed:**

