

PROGRAMACIÓN II

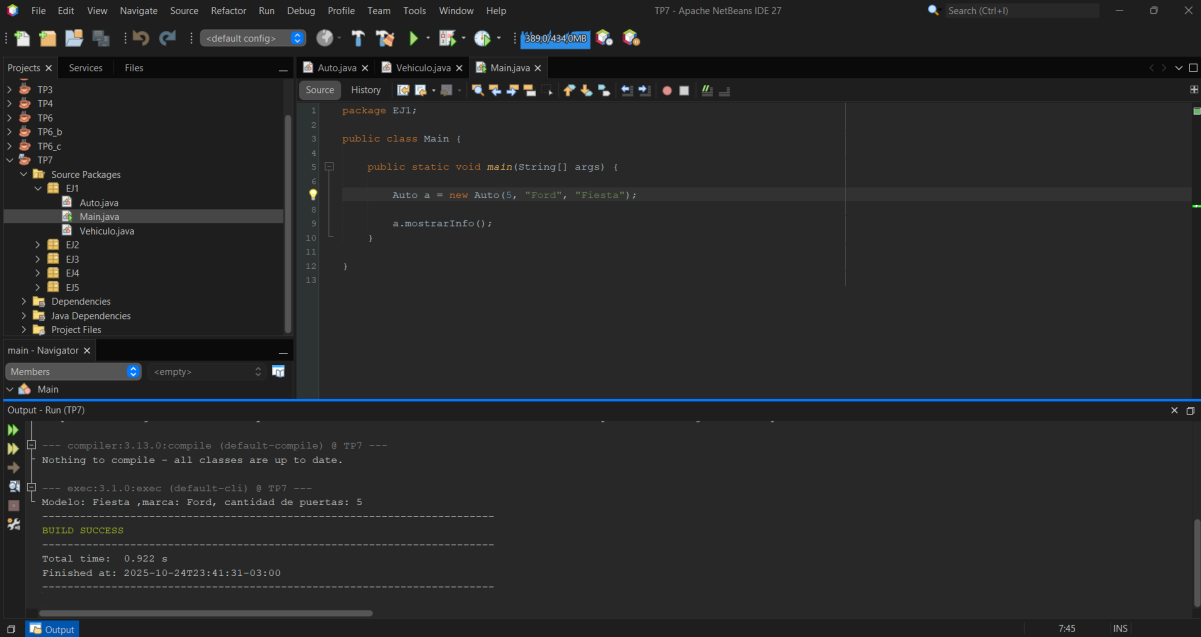
TRABAJO PRÁCTICO 7

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Enlace a repositorio en Github: <https://github.com/FioreGG/UTN-TUPaD-P2.git>

1. Ejercicio 1

Resolución en consola:



The screenshot shows the Apache NetBeans IDE interface. The left sidebar displays the project structure with a tree view containing folders TP3, TP4, TP6, TP6.b, TP6.c, and TP7. Under TP7, there are source packages EJ1, AutoJava, MainJava, and VehiculoJava. The main editor window shows the source code of the Main.java file, which includes a package declaration, a class definition, and a main method that creates an Auto object and calls its mostrarInfo() method. The bottom output window shows the results of a successful build, including compiler and executor messages, and a summary of the build process.

```
1 package EJ1;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Auto a = new Auto(5, "Ford", "Fiesta");
8
9         a.mostrarInfo();
10    }
11
12 }
13
```

Output - Run (TP7)

```
--- compiler:3.13.0:compile (default-compile) @ TP7 ---
Nothing to compile - all classes are up to date.

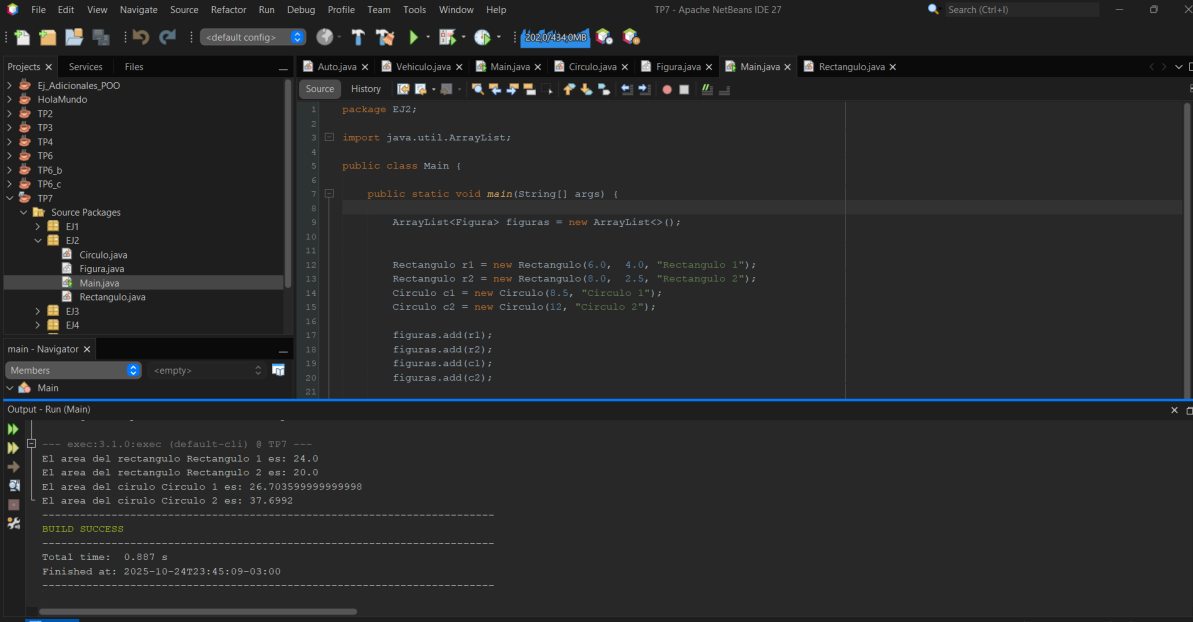
--- exec:3.1.0:exec (default-cli) @ TP7 ---
Modelo: Fiesta ,marca: Ford, cantidad de puertas: 5

BUILD SUCCESS

Total time: 0.922 s
Finished at: 2025-10-24T23:41:31-03:00
```

2. Ejercicio 2

Resolución en consola:



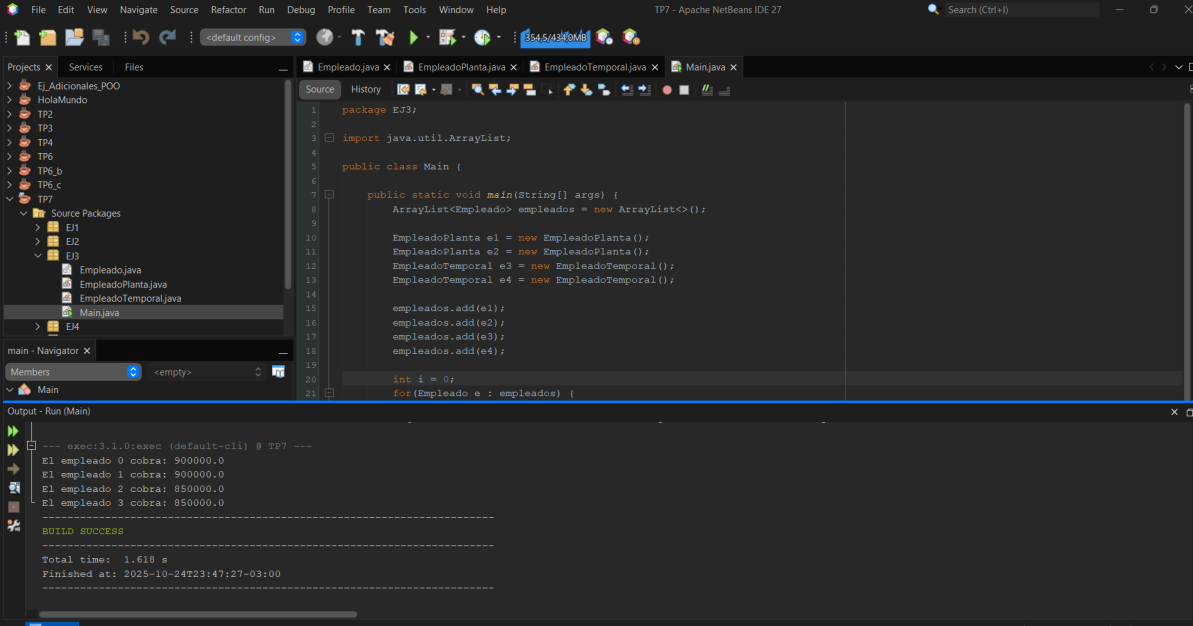
```
1 package EJ2;
2
3 import java.util.ArrayList;
4
5 public class Main {
6
7     public static void main(String[] args) {
8
9         ArrayList<Figura> figuras = new ArrayList<>();
10
11
12         Rectangulo r1 = new Rectangulo(6.0, 4.0, "Rectangulo 1");
13         Rectangulo r2 = new Rectangulo(8.0, 2.5, "Rectangulo 2");
14         Circulo c1 = new Circulo(8.5, "Circulo 1");
15         Circulo c2 = new Circulo(12, "Circulo 2");
16
17         figuras.add(r1);
18         figuras.add(r2);
19         figuras.add(c1);
20         figuras.add(c2);
21     }
```

Output - Run (Main)

```
--- exec:3.1.0:exec (default-cli) @ TP7 ---
El area del rectangulo Rectangulo 1 es: 24.0
El area del rectangulo Rectangulo 2 es: 20.0
El area del circulo Circulo 1 es: 26.703599999999998
El area del circulo Circulo 2 es: 37.6992
-----
BUILD SUCCESS
-----
Total time: 0.887 s
Finished at: 2025-10-24T23:45:09-03:00
-----
```

3. Ejercicio 3

Resolución en consola:



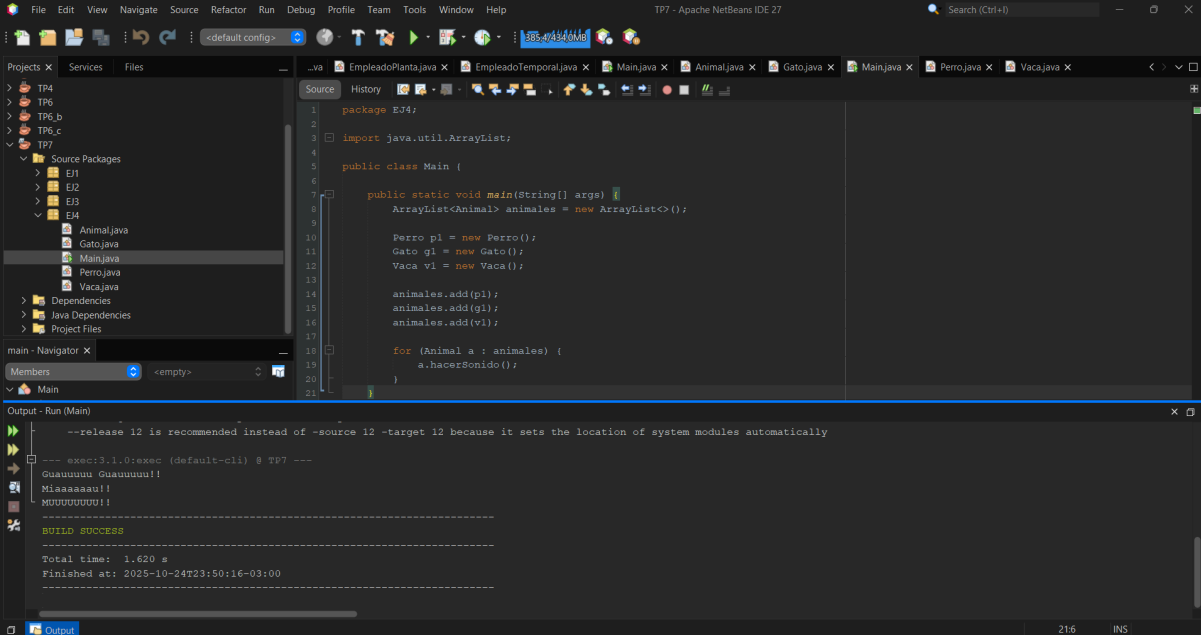
```
1 package EJ3;
2
3 import java.util.ArrayList;
4
5 public class Main {
6
7     public static void main(String[] args) {
8
9         ArrayList<Empleado> empleados = new ArrayList<>();
10
11         EmpleadoPlanta e1 = new EmpleadoPlanta();
12         EmpleadoPlanta e2 = new EmpleadoPlanta();
13         EmpleadoTemporal e3 = new EmpleadoTemporal();
14         EmpleadoTemporal e4 = new EmpleadoTemporal();
15
16         empleados.add(e1);
17         empleados.add(e2);
18         empleados.add(e3);
19         empleados.add(e4);
20
21         int i = 0;
22         for (Empleado e : empleados) {
```

Output - Run (Main)

```
--- exec:3.1.0:exec (default-cli) @ TP7 ---
El empleado 0 cobra: 900000.0
El empleado 1 cobra: 900000.0
El empleado 2 cobra: 850000.0
El empleado 3 cobra: 850000.0
-----
BUILD SUCCESS
-----
Total time: 1.618 s
Finished at: 2025-10-24T23:47:27-03:00
-----
```

4. Ejercicio 4

Resolución en consola



The screenshot shows the Apache NetBeans IDE interface. The main editor displays the source code of a Java program. The code defines a package `EJ4`, imports `java.util.ArrayList`, and creates a `Main` class. The `main` method initializes an `ArrayList` of `Animal` objects, adds instances of `Perro`, `Gato`, and `Vaca`, and then iterates over the list to call `hacerSonido()` on each animal.

```
1 package EJ4;
2
3 import java.util.ArrayList;
4
5 public class Main {
6
7     public static void main(String[] args) {
8         ArrayList<Animal> animales = new ArrayList<>();
9
10        Perro p1 = new Perro();
11        Gato g1 = new Gato();
12        Vaca v1 = new Vaca();
13
14        animales.add(p1);
15        animales.add(g1);
16        animales.add(v1);
17
18        for (Animal a : animales) {
19            a.hacerSonido();
20        }
21    }
22 }
```

The Output window at the bottom shows the execution results. It includes a warning about the `--release 12` flag, the command `exec:3.1.0:exec (default-cli) 8 TP7 ---`, and the output of the program: `Guaaaaauuu!!`, `Miaaaaaau!!`, and `MUUUUUUUU!!`. The output concludes with `BUILD SUCCESS`, a total time of `1.620 s`, and a finish time of `2025-10-24T23:50:16-03:00`.

```
--release 12 is recommended instead of -source 12 -target 12 because it sets the location of system modules automatically
--- exec:3.1.0:exec (default-cli) 8 TP7 ---
Guaaaaauuu!!
Miaaaaaau!!
MUUUUUUUUU!!
BUILD SUCCESS
Total time: 1.620 s
Finished at: 2025-10-24T23:50:16-03:00
```