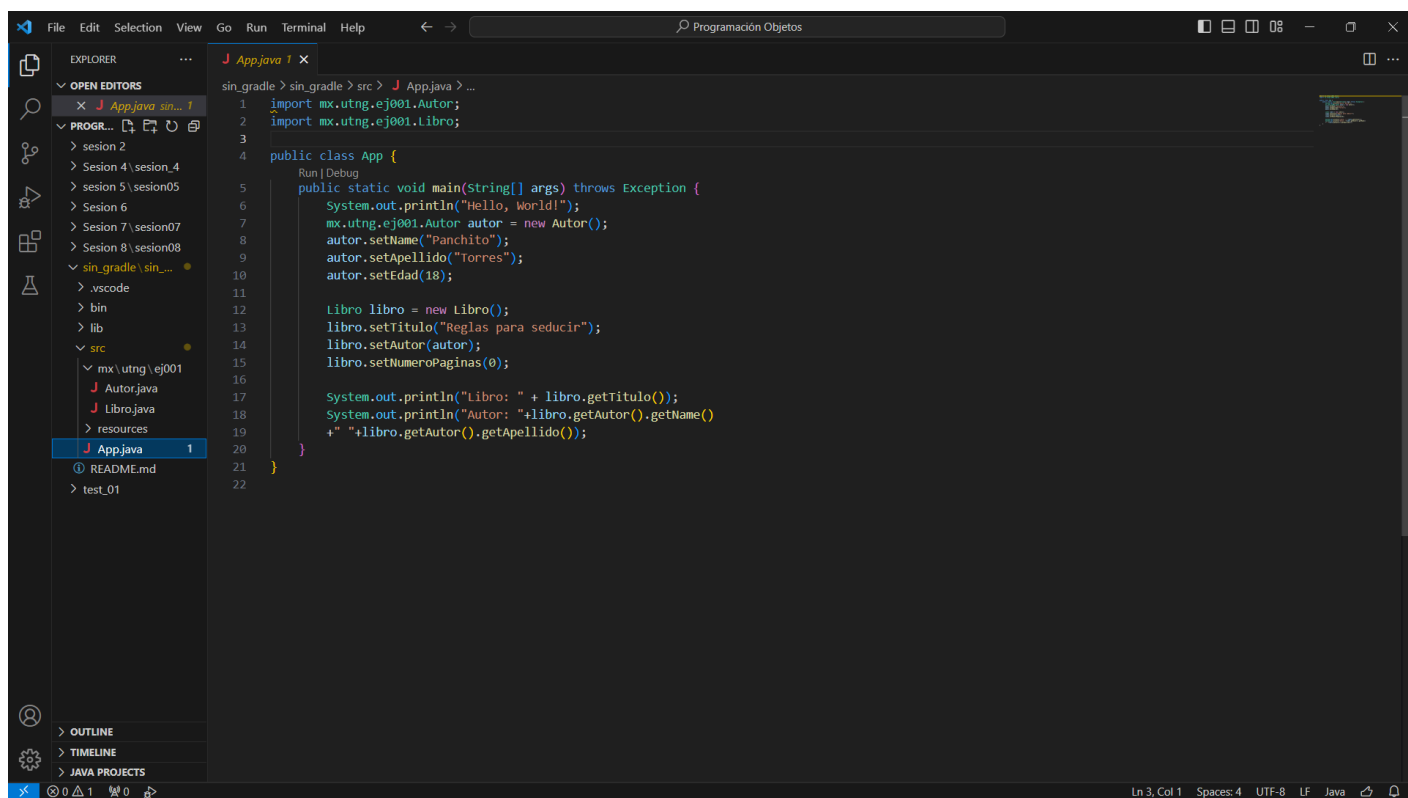
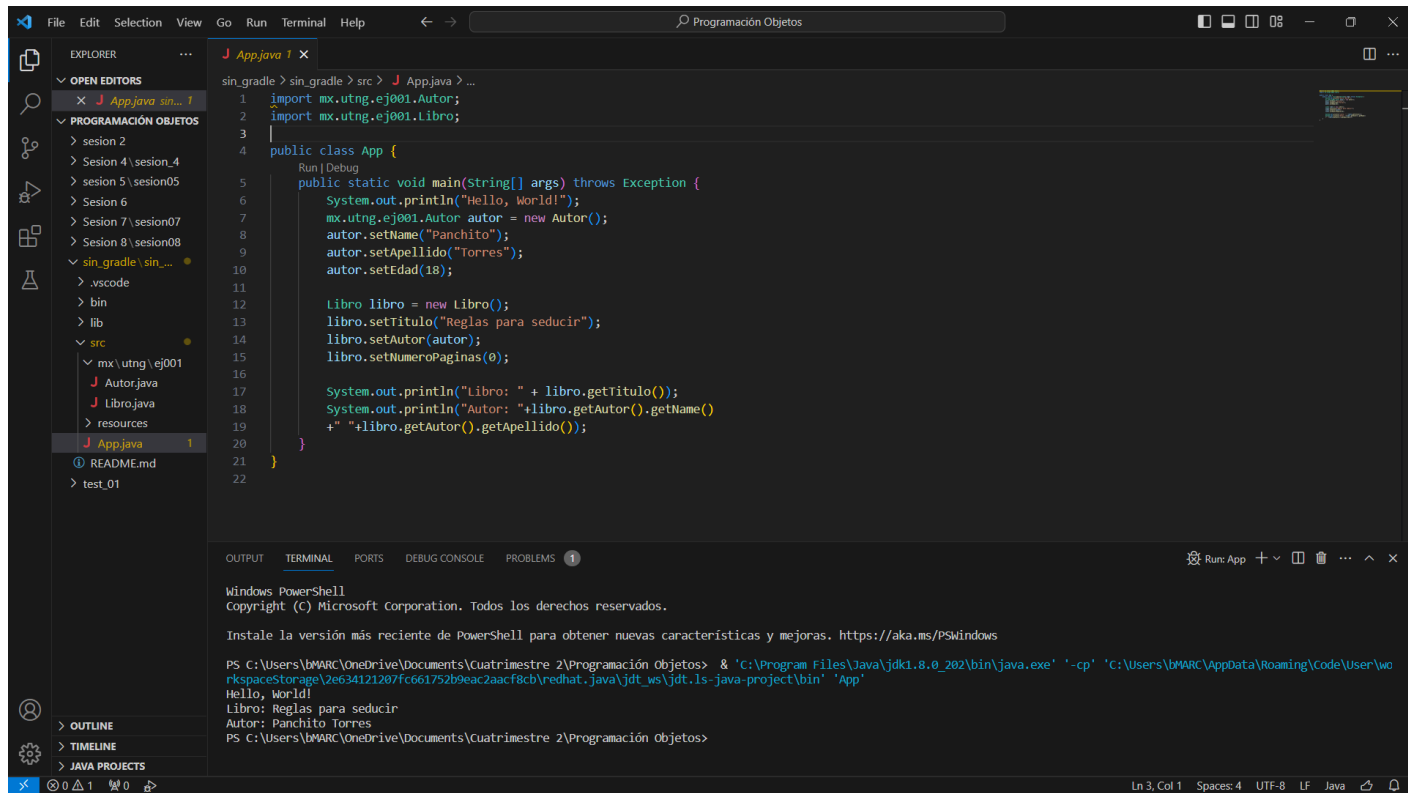


# Ejercicios Realizados En Clase

Alumno: Uriel Yáñez Aguayo

Docente: Anastacio Rodríguez García

Materia: Programación Orientada a Objetos



The screenshot shows the Visual Studio Code editor with the file `Libro.java` open. The Explorer sidebar on the left shows the project structure, including `src`, `bin`, `lib`, and `src` subfolders. The main editor area displays the following Java code:

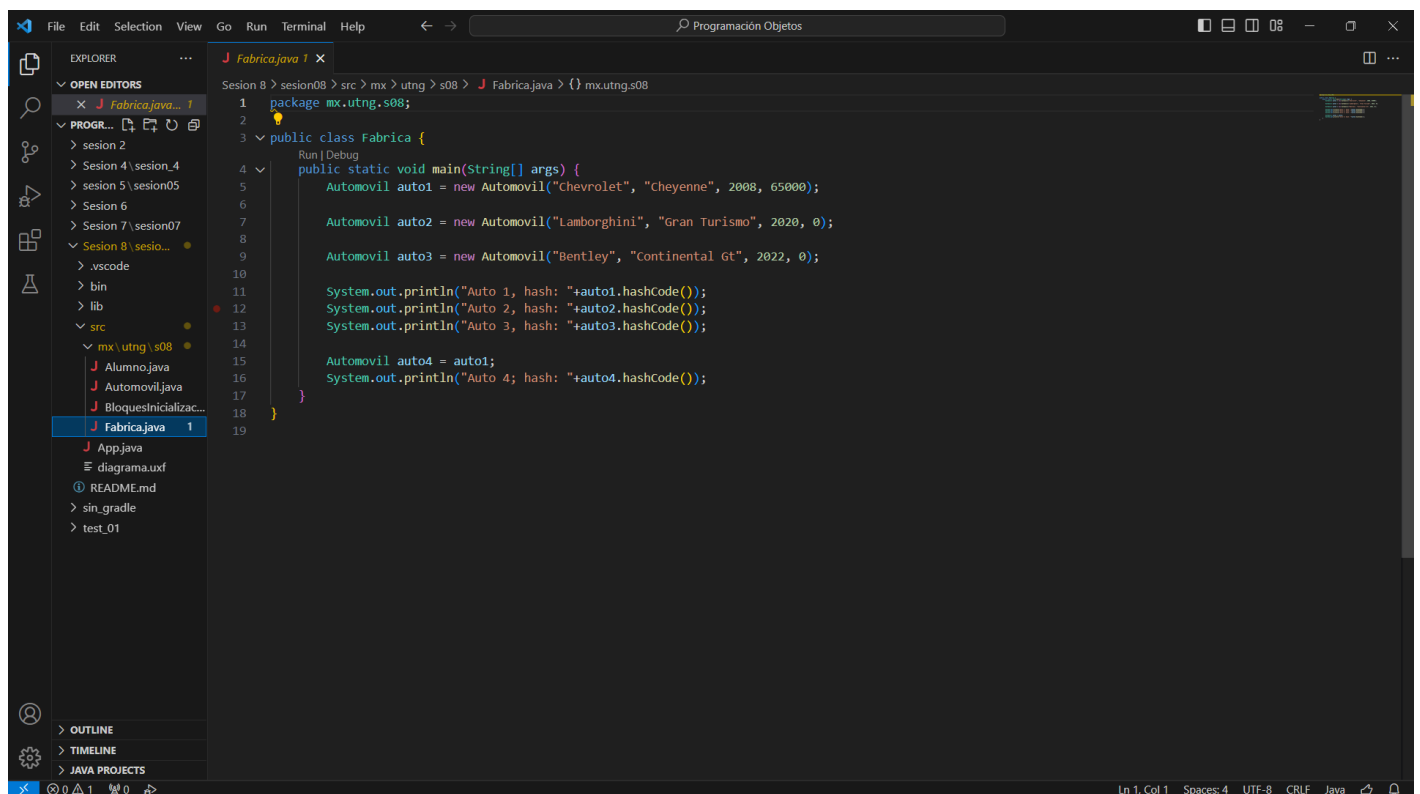
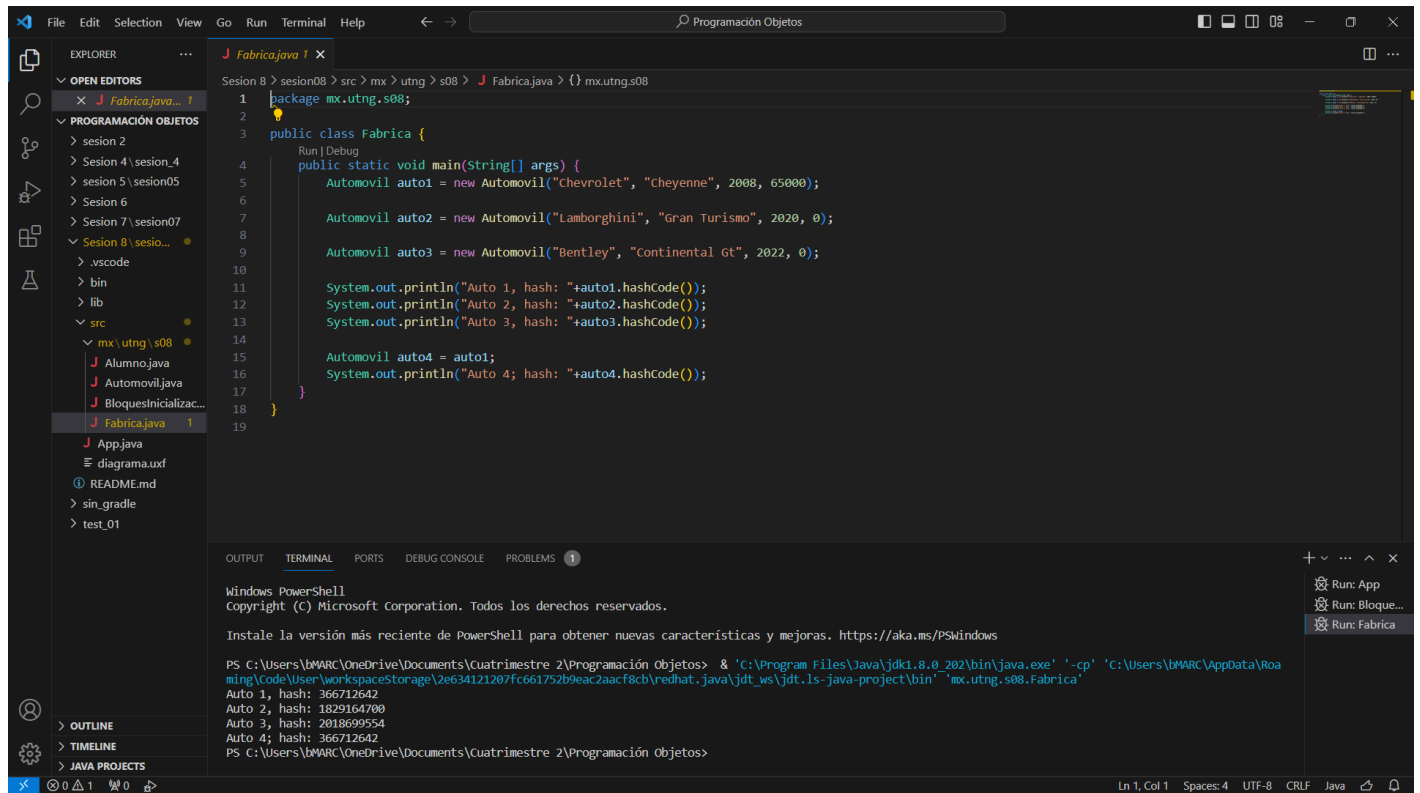
```
sin_gradle > sin_gradle > src > mx > utng > ej001 > J Libro.java > {} mx.utng.ej001
1 package mx.utng.ej001;
2
3 public class Libro {
4     private String titulo;
5     private Autor autor;
6     private int numeroPaginas;
7     public String getTitulo() {
8         return titulo;
9     }
10    public void setTitulo(String titulo) {
11        this.titulo = titulo;
12    }
13    public Autor getAutor() {
14        return autor;
15    }
16    public void setAutor(Autor autor) {
17        this.autor = autor;
18    }
19    public int getNumeroPaginas() {
20        return numeroPaginas;
21    }
22    public void setNumeroPaginas(int numeroPaginas) {
23        this.numeroPaginas = numeroPaginas;
24    }
25 }
26
27
28
```

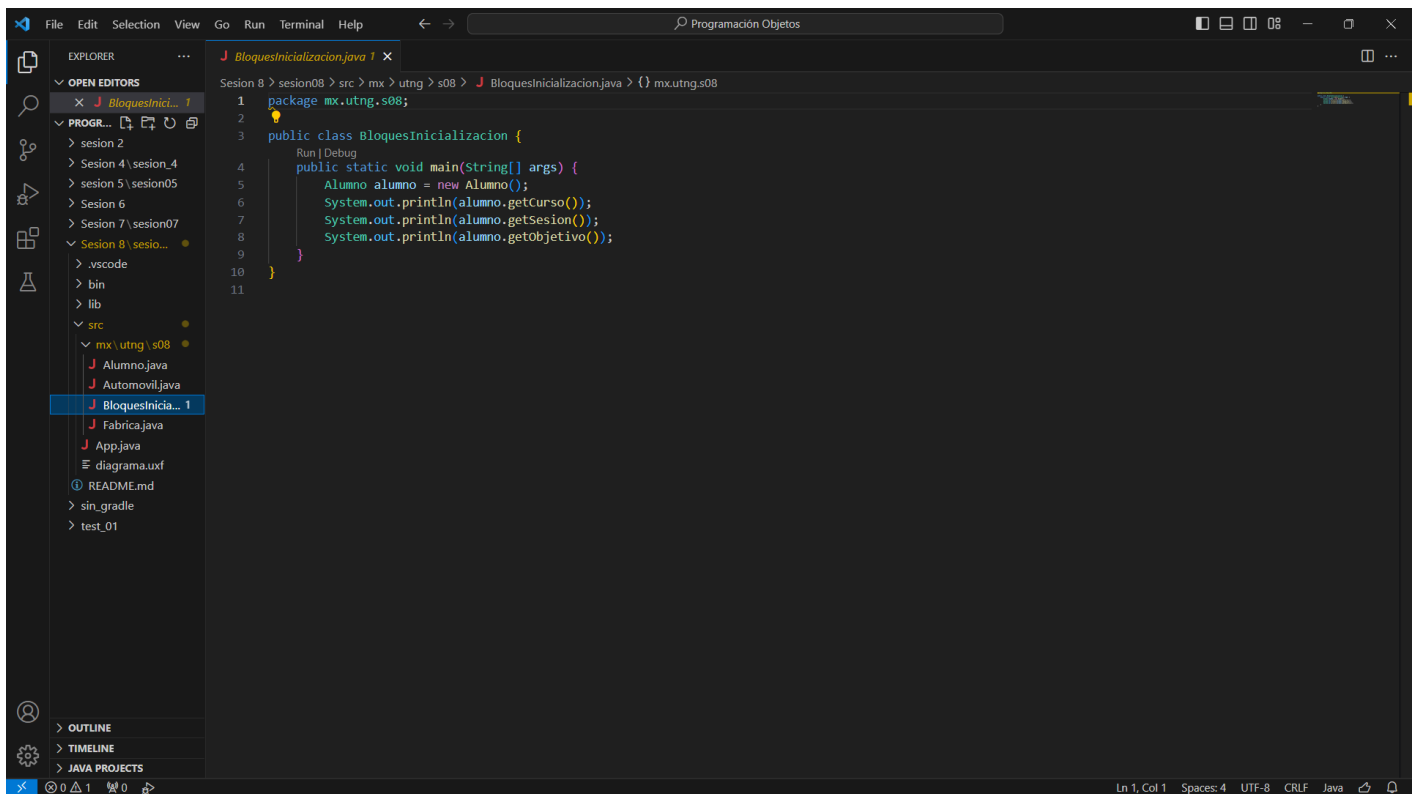
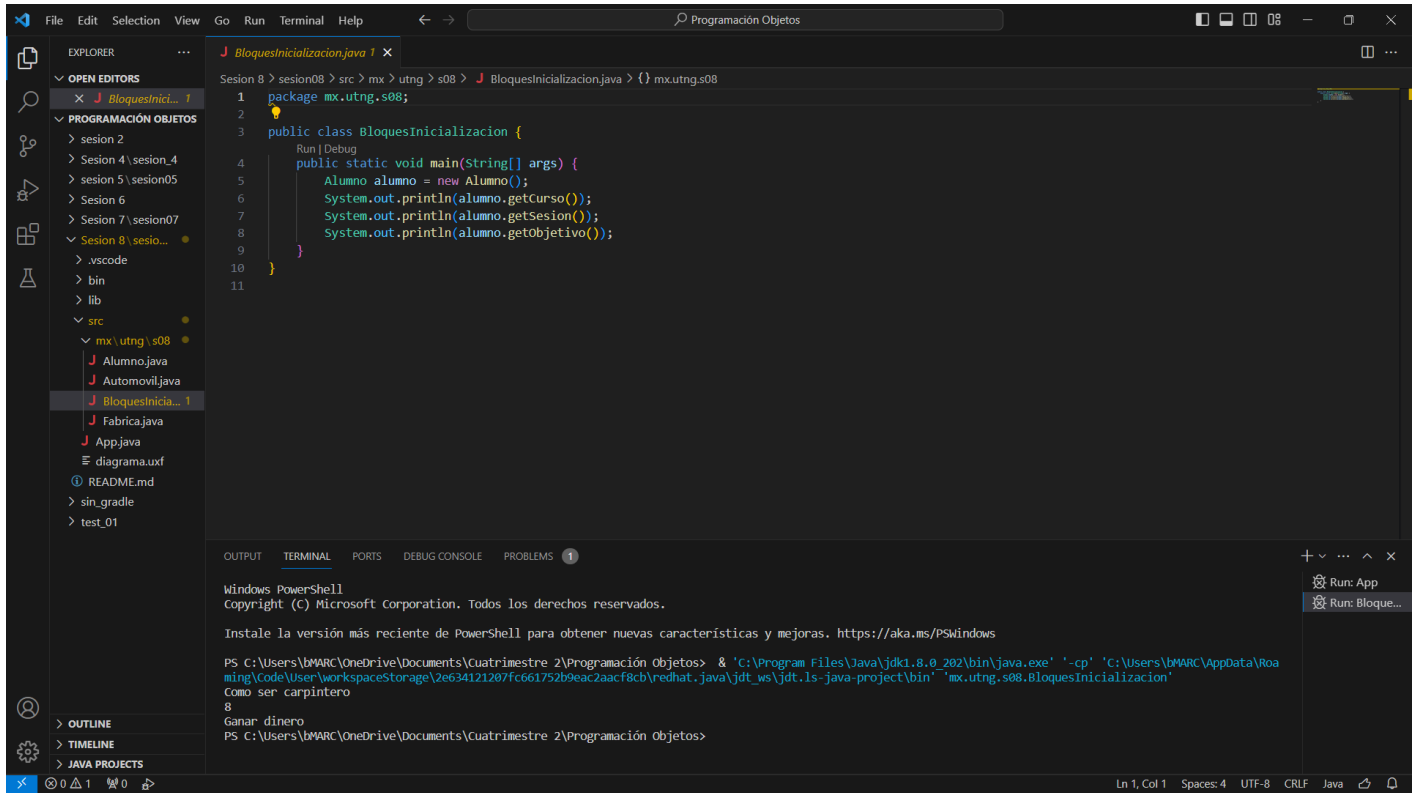
The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.

The screenshot shows the Visual Studio Code editor with the file `Autor.java` open. The Explorer sidebar on the left shows the project structure, including `src`, `bin`, `lib`, and `src` subfolders. The main editor area displays the following Java code:

```
sin_gradle > sin_gradle > src > mx > utng > ej001 > J Autor.java > {} mx.utng.ej001
1 package mx.utng.ej001;
2
3 public class Autor {
4     private String name;
5     private String apellido;
6     private int edad;
7
8     public String getName() {
9         return name;
10    }
11    public void setName(String name) {
12        this.name = name;
13    }
14    public String getApellido() {
15        return apellido;
16    }
17    public void setApellido(String apellido) {
18        this.apellido = apellido;
19    }
20    public int getEdad() {
21        return edad;
22    }
23    public void setEdad(int edad) {
24        this.edad = edad;
25    }
26 }
27
28
29
30
```

The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.





The screenshot shows the Visual Studio Code editor with the file `Automovil.java` open. The Explorer sidebar on the left shows the project structure, including a folder `src` with subfolders `mx\utng\s08` and `Alumno.java`. The main editor area displays the following Java code:

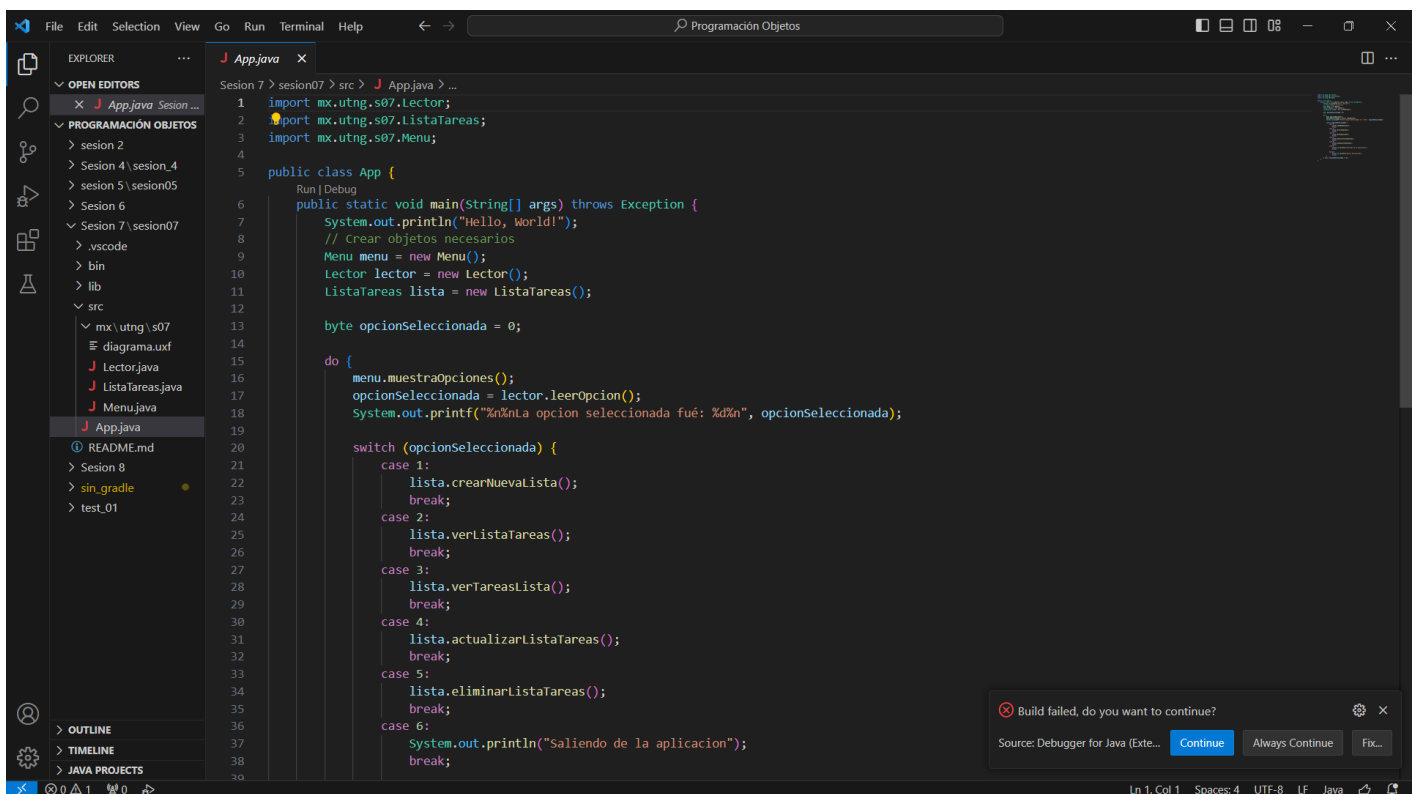
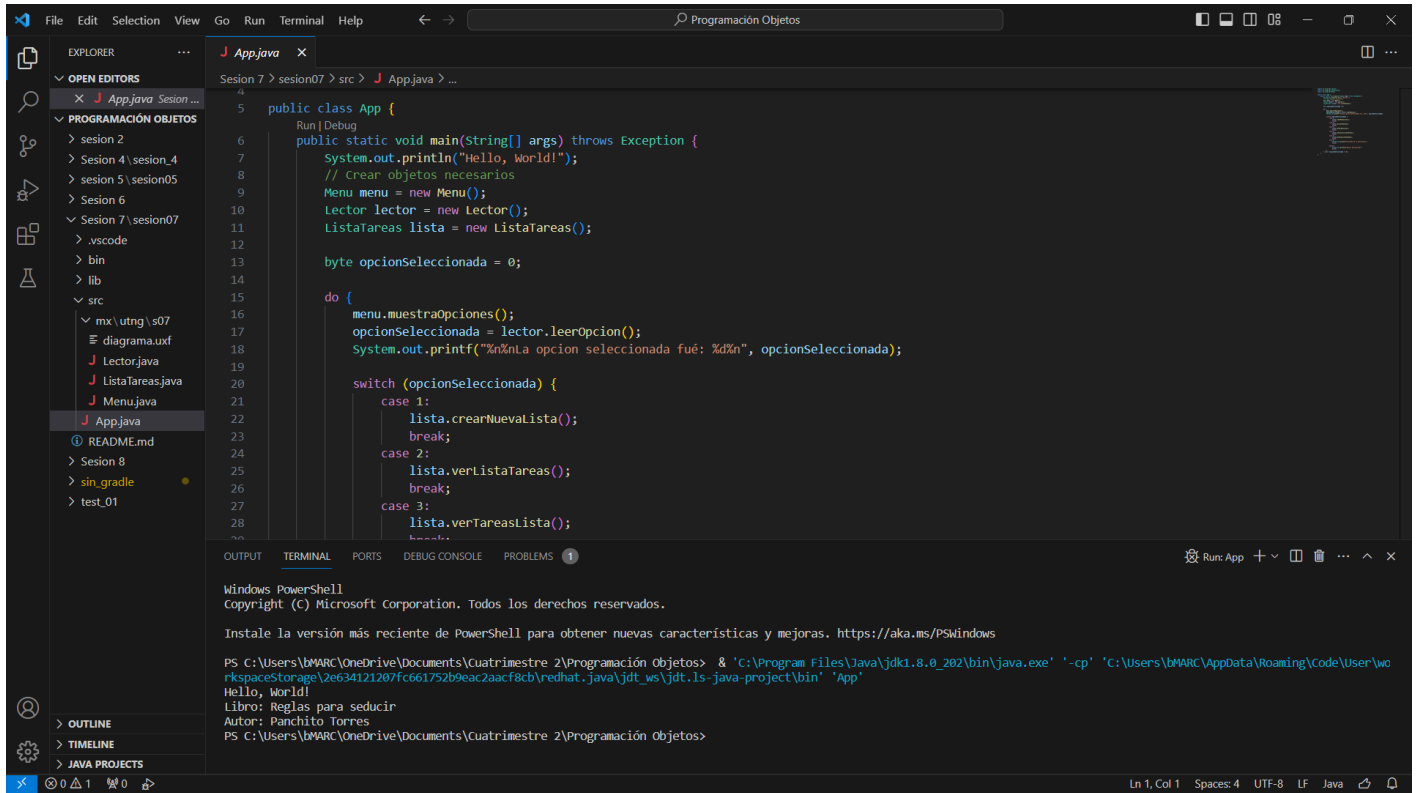
```
1 package mx.utng.s08;
2
3 public class Automovil {
4     private String marca;
5     private String modelo;
6     private int anioFabricacion;
7     private int kilometraje;
8
9     public Automovil(String marca, String modelo, int anioFabricacion, int kilometraje){
10         this.marca = marca;
11         this.modelo = modelo;
12         this.anioFabricacion = anioFabricacion;
13         this.kilometraje = kilometraje;
14     }
15
16     public String getMarca() {
17         return marca;
18     }
19
20     public void setMarca(String marca) {
21         this.marca = marca;
22     }
23
24     public String getModelo() {
25         return modelo;
26     }
27
28     public void setModelo(String modelo) {
29         this.modelo = modelo;
30     }
31
32     public int getAnioFabricacion() {
33         return anioFabricacion;
34     }
35
36     public void setAnioFabricacion(int anioFabricacion) {
37         this.anioFabricacion = anioFabricacion;
38     }
39 }
```

The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.

The screenshot shows the Visual Studio Code editor with the file `Alumno.java` open. The Explorer sidebar on the left shows the project structure, including a folder `src` with subfolders `mx\utng\s08` and `Alumno.java`. The main editor area displays the following Java code:

```
1 package mx.utng.s08;
2
3 public class Alumno {
4     private String curso;
5     private byte sesion;
6     private String objetivo;
7
8     {
9         curso = "Programación Orientada a Objetos";
10         sesion = 8;
11         objetivo = "Aprender el paradigma orientado a Objetos";
12     }
13
14     {
15         curso = "Como ser carpintero";
16         objetivo = "Ganar dinero";
17     }
18
19     public String getCurso(){
20         return curso;
21     }
22
23     public void setCurso(String curso) {
24         this.curso = curso;
25     }
26
27     public byte getSesion() {
28         return sesion;
29     }
30
31     public void setSesion(byte sesion) {
32         this.sesion = sesion;
33     }
34
35     public String getObjetivo() {
36         return objetivo;
37     }
38
39     public void setObjetivo(String objetivo) {
40         this.objetivo = objetivo;
41     }
42 }
```

The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.



The screenshot shows the Visual Studio Code editor with the file `Menu.java` open. The Explorer sidebar on the left shows the project structure, with `Menu.java` selected under the `src` folder. The main editor area displays the following Java code:

```
1 package mx.utng.s07;
2
3 public class Menu {
4     public void muestraOpciones(){
5         System.out.println("SELECCIONA UNA OPCION");
6         System.out.println("1.- crea una lista de tareas");
7         System.out.println("2.- Ver lista de tareas");
8         System.out.println("3.- Ver tareas de la lista");
9         System.out.println("4.- Actualizar lista de tareas");
10        System.out.println("5.- Eliminar lista de tareas");
11        System.out.println("6.- Salir");
12    }
13 }
14
```

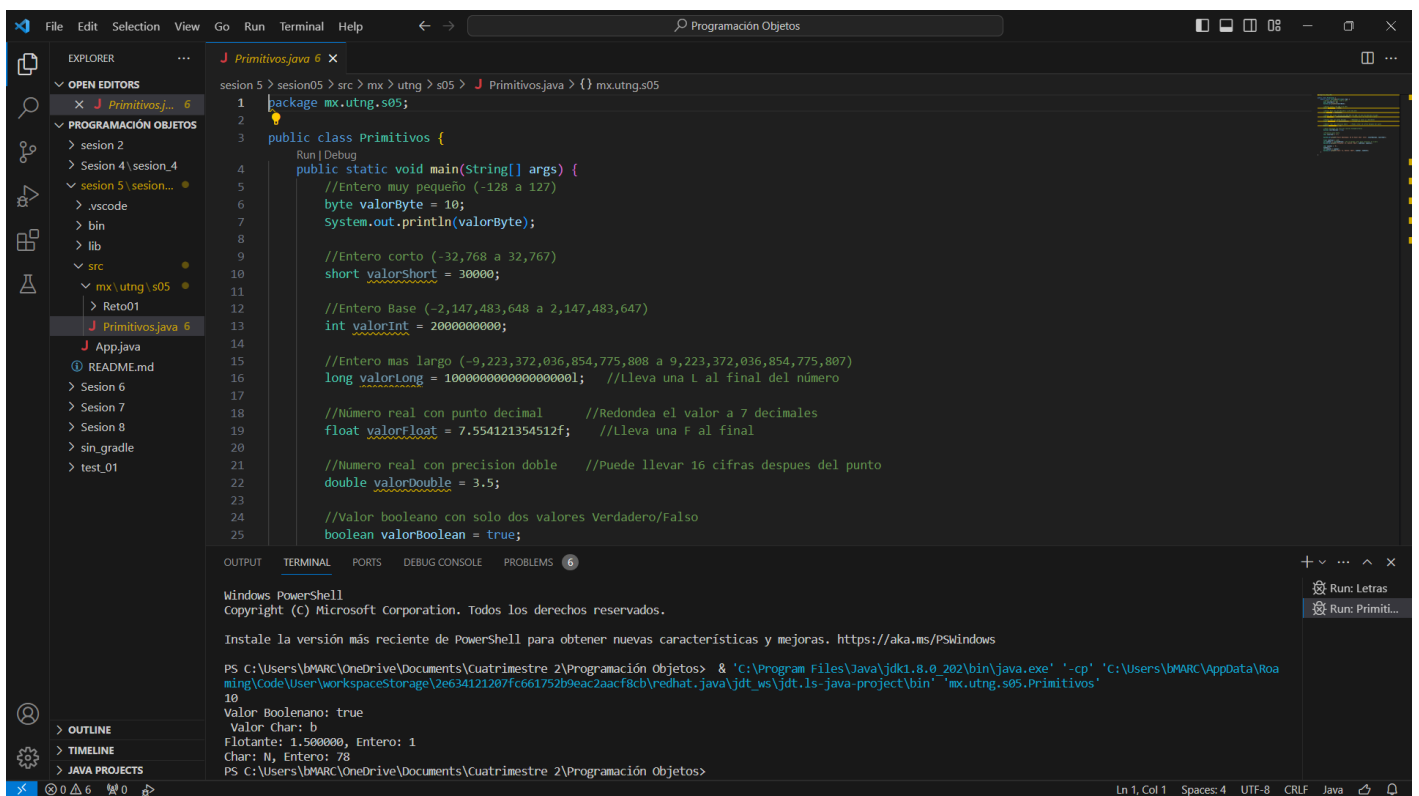
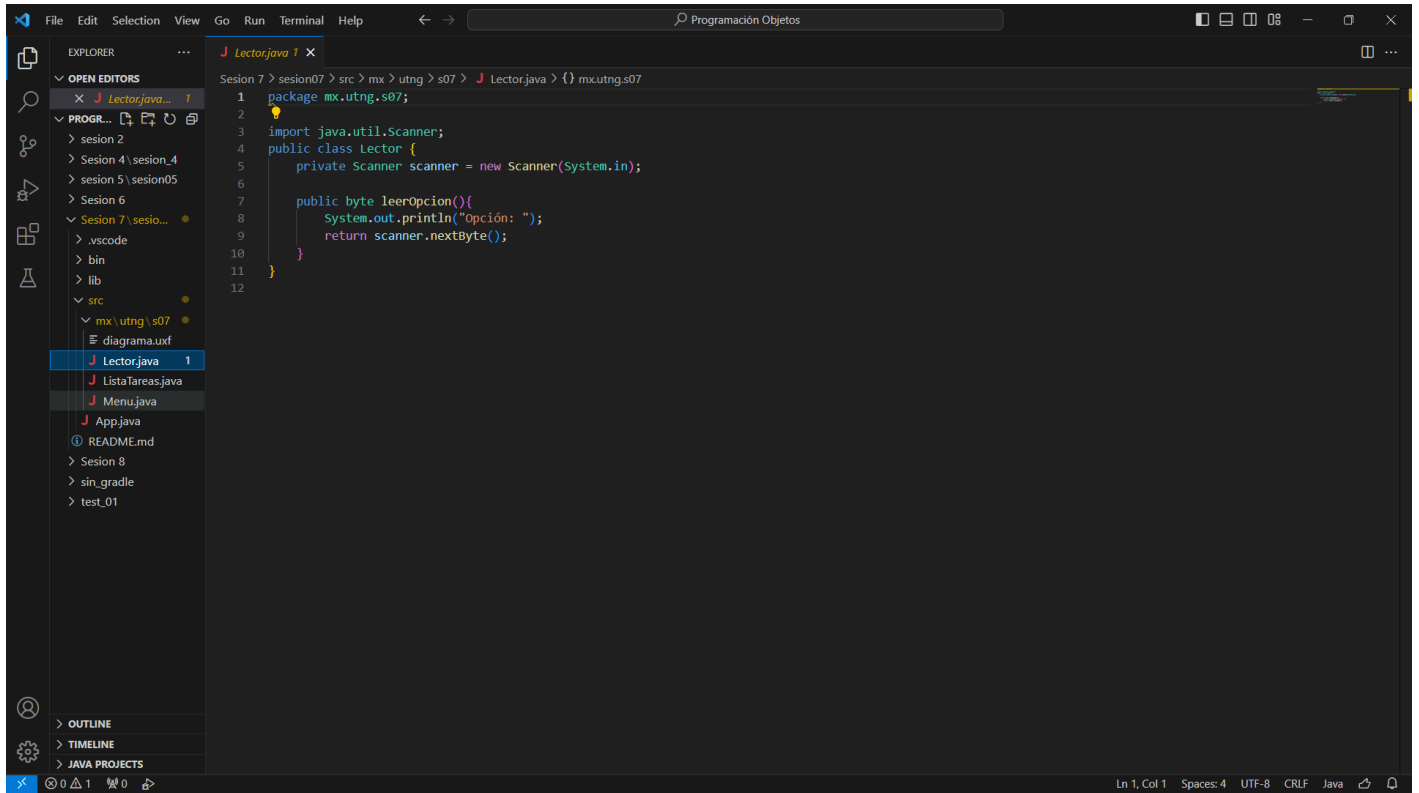
The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.

The screenshot shows the Visual Studio Code editor with the file `ListaTareas.java` open. The Explorer sidebar on the left shows the project structure, with `ListaTareas.java` selected under the `src` folder. The main editor area displays the following Java code:

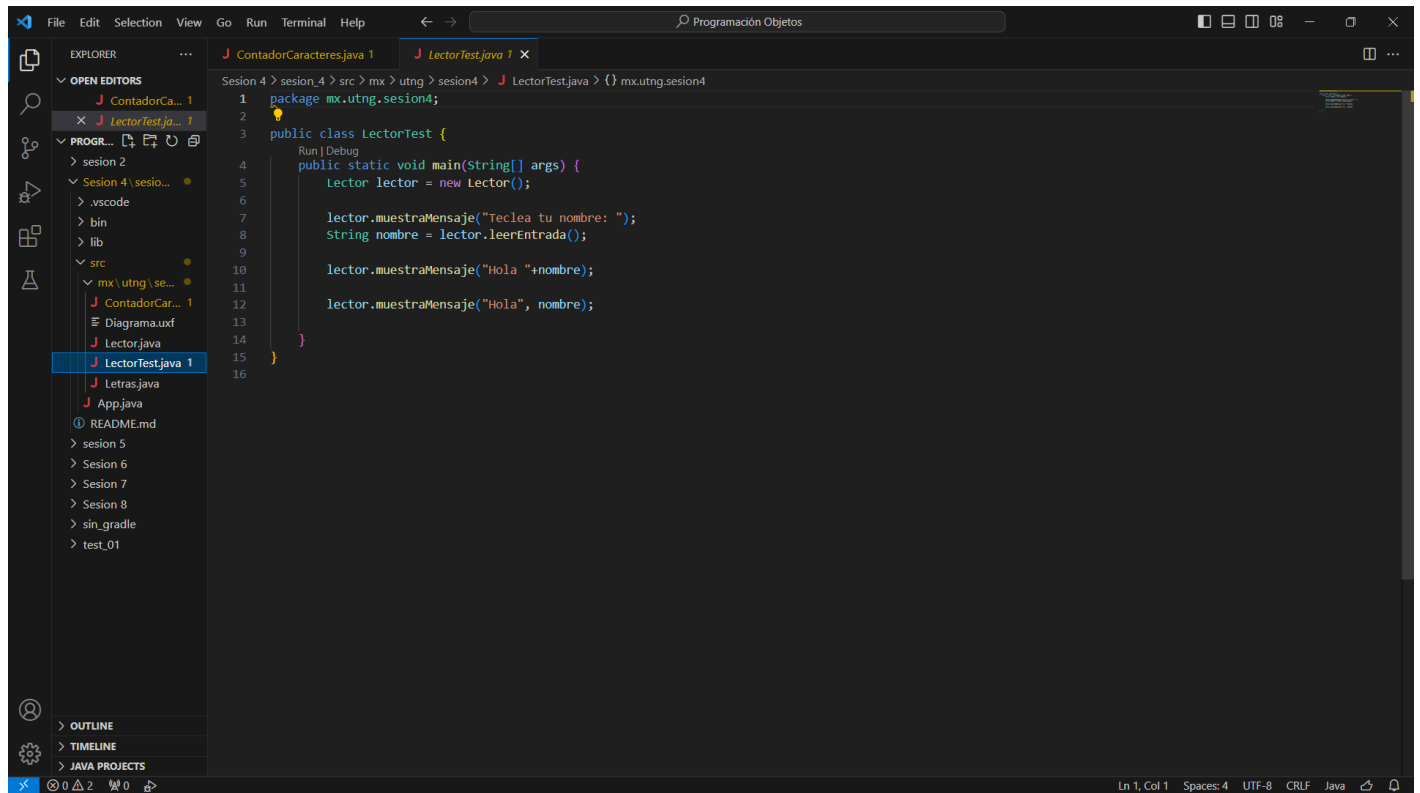
```
1 package mx.utng.s07;
2
3 public class ListaTareas {
4     public void crearNuevaLista() {
5         System.out.println("Crear nueva lista de tareas. ");
6     }
7
8     public void verListaTareas() {
9         System.out.println("Ver lista de tareas.");
10    }
11
12    public void verTareasLista(){
13        System.out.println("Ver tareas de lista");
14    }
15
16    public void actualizarListaTareas(){
17        System.out.println("Actualizar lista de tareas");
18    }
19
20    public void eliminarListaTareas(){
21        System.out.println("Eliminar lista de tareas");
22    }
23 }
24
25
```

The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.





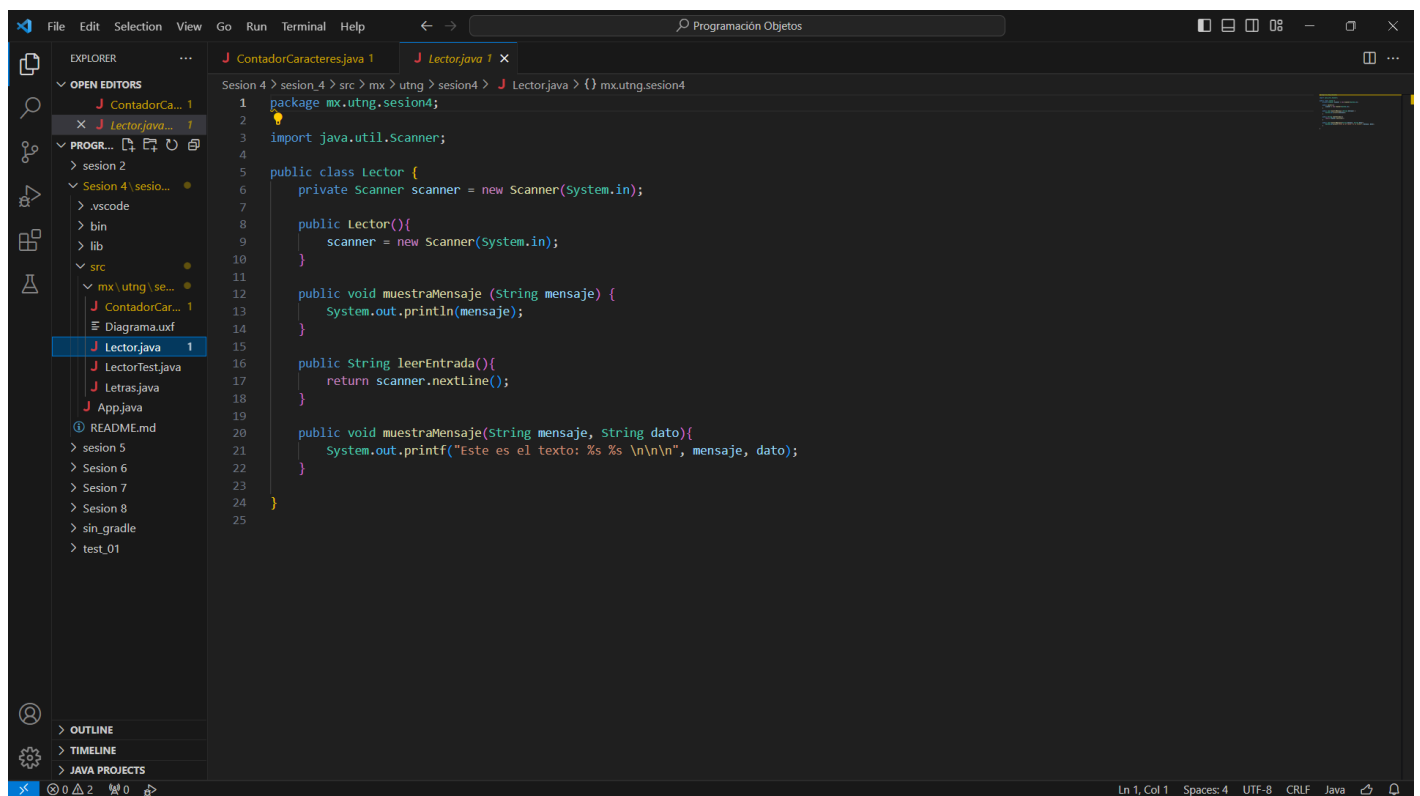




This screenshot shows the Visual Studio Code editor with the file `LectorTest.java` open. The Explorer sidebar on the left shows the project structure, including a `src` directory with `LectorTest.java` selected. The main editor area displays the following Java code:

```
1 package mx.utng.session4;
2
3 public class LectorTest {
4     public static void main(String[] args) {
5         Lector lector = new Lector();
6
7         lector.muestraMensaje("Teclea tu nombre: ");
8         String nombre = lector.leerEntrada();
9
10        lector.muestraMensaje("Hola " + nombre);
11
12        lector.muestraMensaje("Hola", nombre);
13    }
14 }
15
16
```

The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.



This screenshot shows the Visual Studio Code editor with the file `Lector.java` open. The Explorer sidebar on the left shows the project structure, including a `src` directory with `Lector.java` selected. The main editor area displays the following Java code:

```
1 package mx.utng.session4;
2
3 import java.util.Scanner;
4
5 public class Lector {
6     private Scanner scanner = new Scanner(System.in);
7
8     public Lector(){
9         scanner = new Scanner(System.in);
10    }
11
12    public void muestraMensaje (String mensaje) {
13        System.out.println(mensaje);
14    }
15
16    public String leerEntrada(){
17        return scanner.nextLine();
18    }
19
20    public void muestraMensaje(String mensaje, String dato){
21        System.out.printf("Este es el texto: %s %s \n\n", mensaje, dato);
22    }
23
24 }
25
```

The status bar at the bottom indicates the cursor is at line 1, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language.

This screenshot shows the Visual Studio Code editor with the file `ContadorCaracteres.java` open. The Explorer sidebar on the left shows a project structure with folders like `sesion 2`, `sesion 4`, and `src`. The main editor area displays the following Java code:

```
1 package mx.utng.sesion4;
2
3 public class ContadorCaracteres {
4
5     public boolean isVocal(char caracter){
6         return caracter == 'a' || caracter == 'e' || caracter == 'i' || caracter == 'o' || caracter == 'u';
7     }
8     public boolean isConsonante(char caracter){
9         short codigoAscii = (short)caracter;
10        return (codigoAscii >= 97 && codigoAscii <= 122) && !isVocal(caracter);
11    }
12    public boolean isNumero(char caracter){
13        short codigoAscii = (short)caracter;
14        return codigoAscii >= 48 && codigoAscii <= 57;
15    }
16    public boolean isSimbolo(char caracter){
17        return !isVocal(caracter) && !isConsonante(caracter) && !isNumero(caracter);
18    }
19    public int cuentaVocales(String palabra){
20        int contador = 0;
21        for(int i=0; i < palabra.length(); i++){
22            char caracter = palabra.charAt(i);
23            if(isVocal(caracter)){
24                contador++;
25            }
26        }
27        return contador;
28    }
29    public int cuentaConsonantes(String palabra){
30        int contador = 0;
31        for(int i = 0; i < palabra.length(); i++){
32            char caracter = palabra.charAt(i);
33            if(isConsonante(caracter)){
34                contador++;
35            }
36        }
37        return contador;
38    }
39    public int cuentaNumeros(String palabra){
40        int contador = 0;
```

The status bar at the bottom indicates the cursor is at line 2, column 1, in a UTF-8 file with CRLF line endings.

This screenshot shows the Visual Studio Code editor with the file `Saludo.java` open. The Explorer sidebar on the left shows a project structure with folders like `sesion 2`, `sesion 4`, and `src`. The main editor area displays the following Java code:

```
1 package mx.utng.saludo;
2
3 public class Saludo {
4     public static void main(String[] args) {
5         System.out.println("Hola Mundo!");
6     }
7 }
8 //Uriel Yáñez Aguayo
```

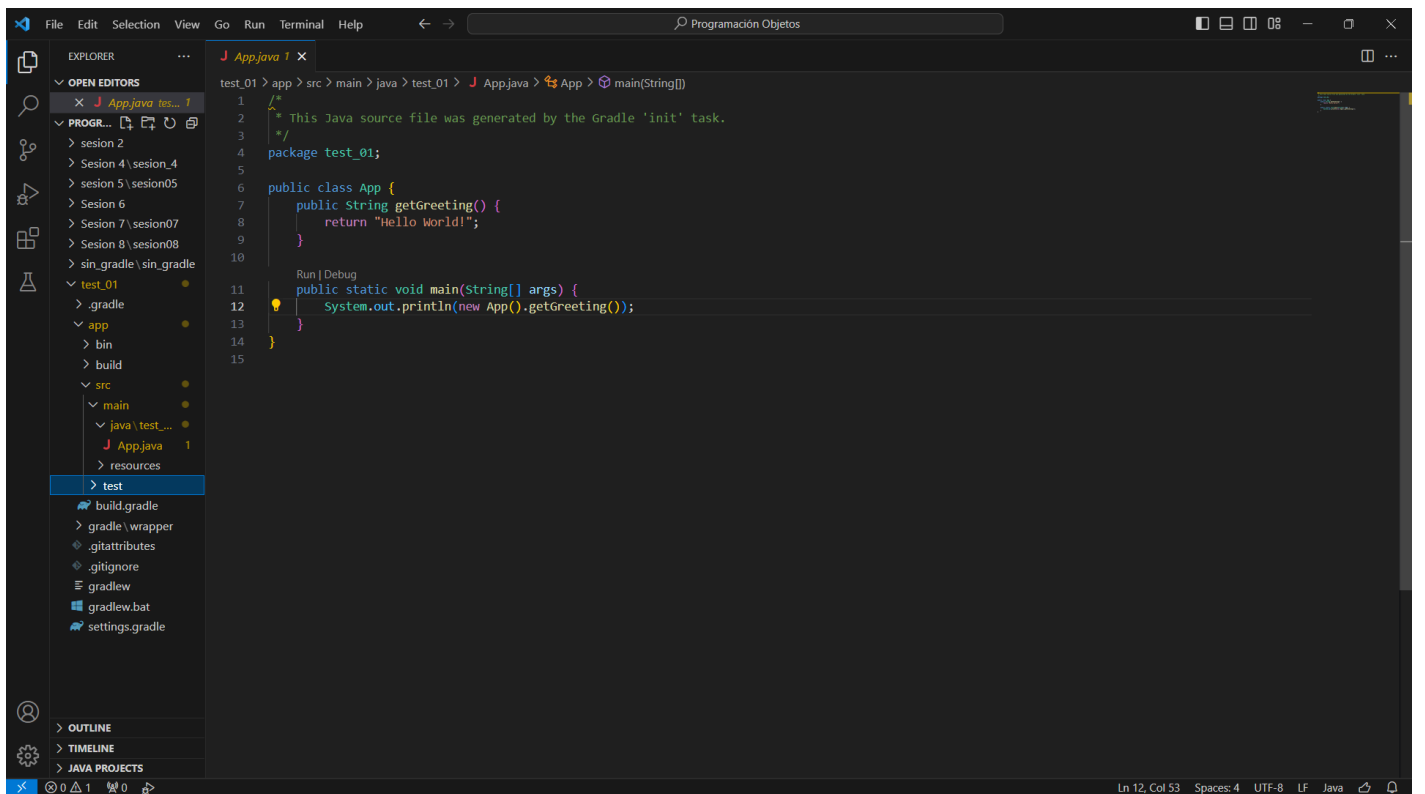
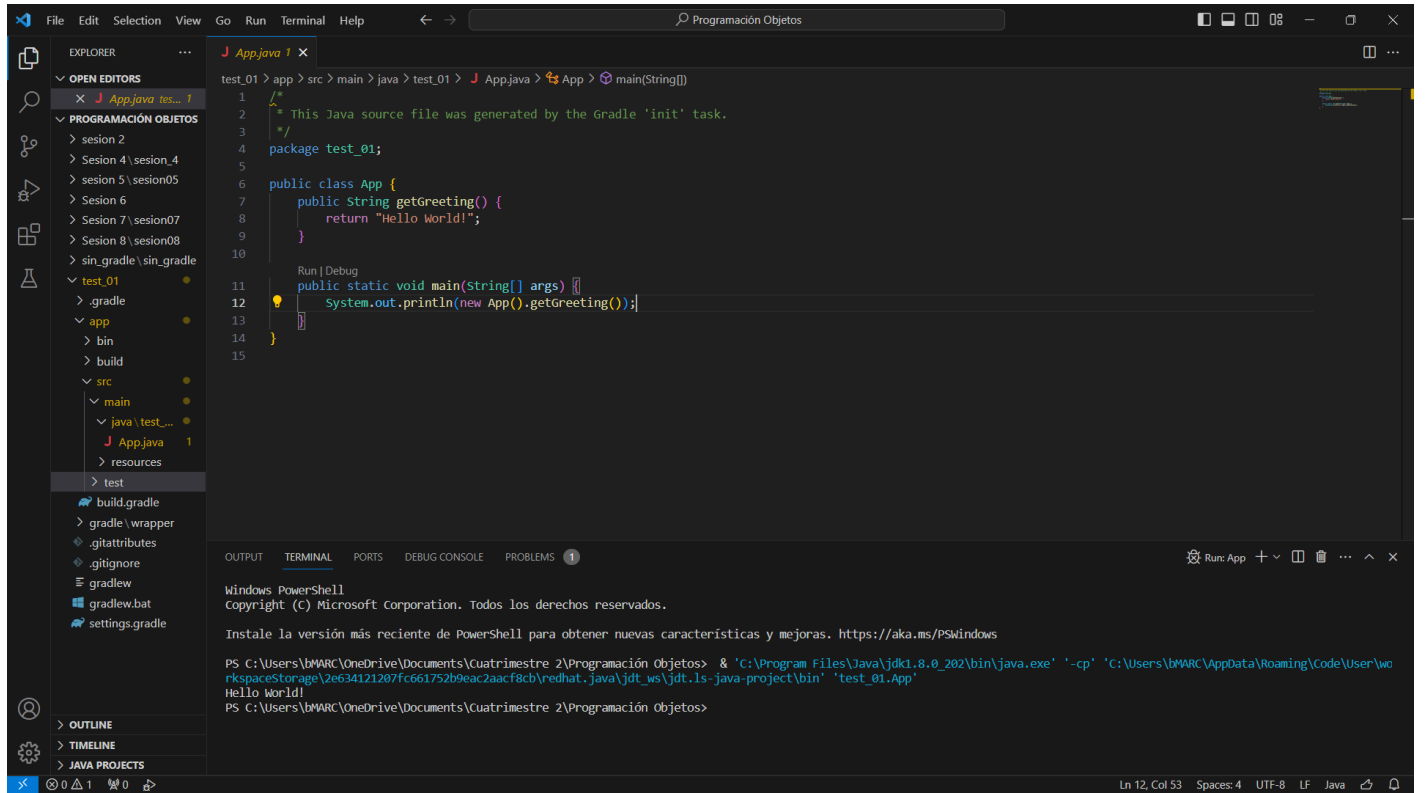
The status bar at the bottom indicates the cursor is at line 8, column 21, in a UTF-8 file with CRLF line endings.

Below the editor, the **TERMINAL** tab is active, showing the output of running the program:

```
Windows PowerShell
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Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. https://aka.ms/PSWindows

PS C:\Users\B\MARC\OneDrive\Documents\Cuatrimestre 2\Programación Objetos> & 'c:\Program Files\Java\jdk-17\bin\java.exe' '@C:\Users\B\MARC\AppData\Local\Temp\cp_2icct18bvhc3rd83ckrmzqv.argfile' 'mx.utng.saludo.Saludo'
Hola Mundo!
PS C:\Users\B\MARC\OneDrive\Documents\Cuatrimestre 2\Programación Objetos>
```

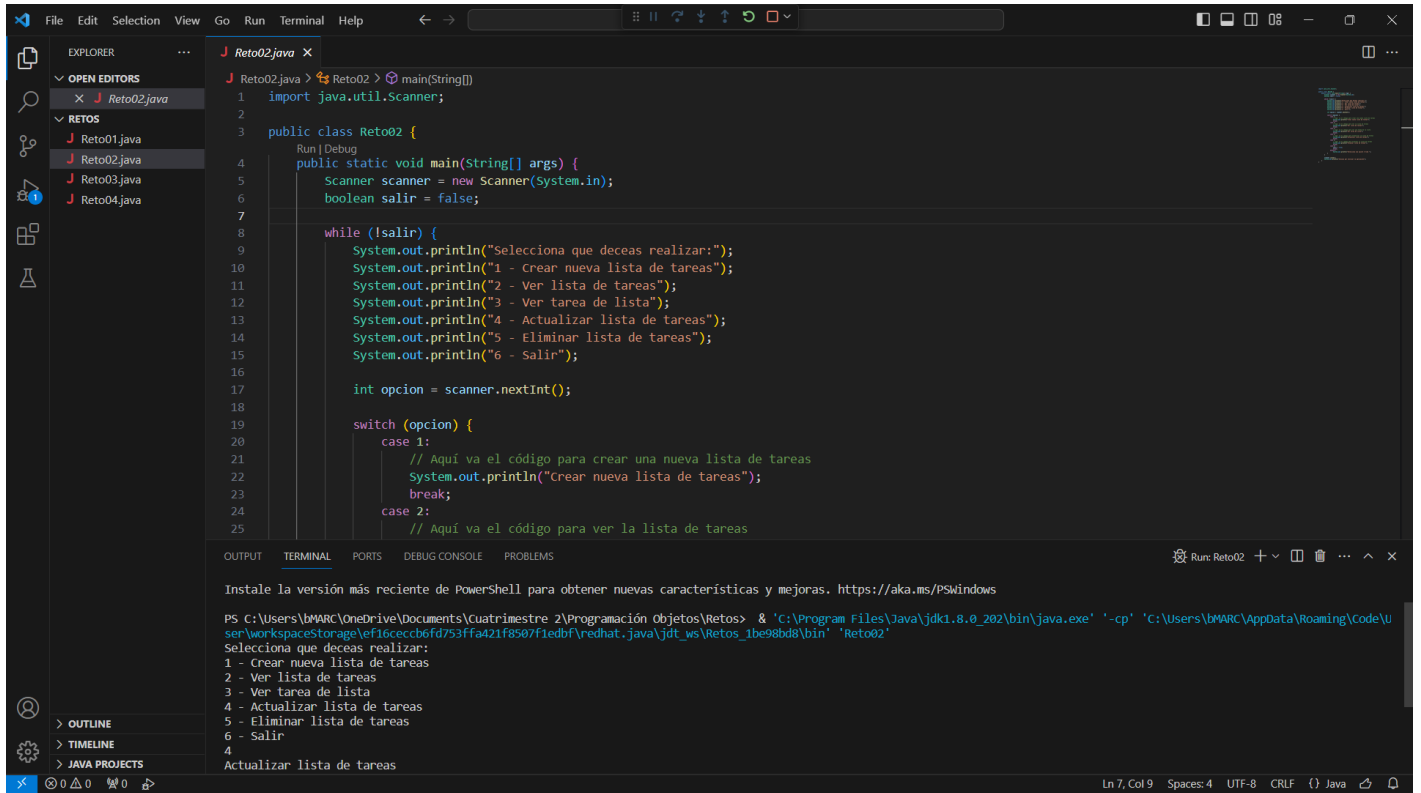


# Retos

Alumno: Uriel Yáñez Aguayo

Docente: Anastacio Rodríguez García

Materia: Programación Orientada a Objetos



```
1 import java.util.Scanner;
2
3 public class Reto02 {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6         boolean salir = false;
7
8         while (!salir) {
9             System.out.println("Selecciona que decesas realizar:");
10            System.out.println("1 - Crear nueva lista de tareas");
11            System.out.println("2 - Ver lista de tareas");
12            System.out.println("3 - Ver tarea de lista");
13            System.out.println("4 - Actualizar lista de tareas");
14            System.out.println("5 - Eliminar lista de tareas");
15            System.out.println("6 - Salir");
16
17            int opcion = scanner.nextInt();
18
19            switch (opcion) {
20                case 1:
21                    // Aquí va el código para crear una nueva lista de tareas
22                    System.out.println("Crear nueva lista de tareas");
23                    break;
24                case 2:
25                    // Aquí va el código para ver la lista de tareas
```

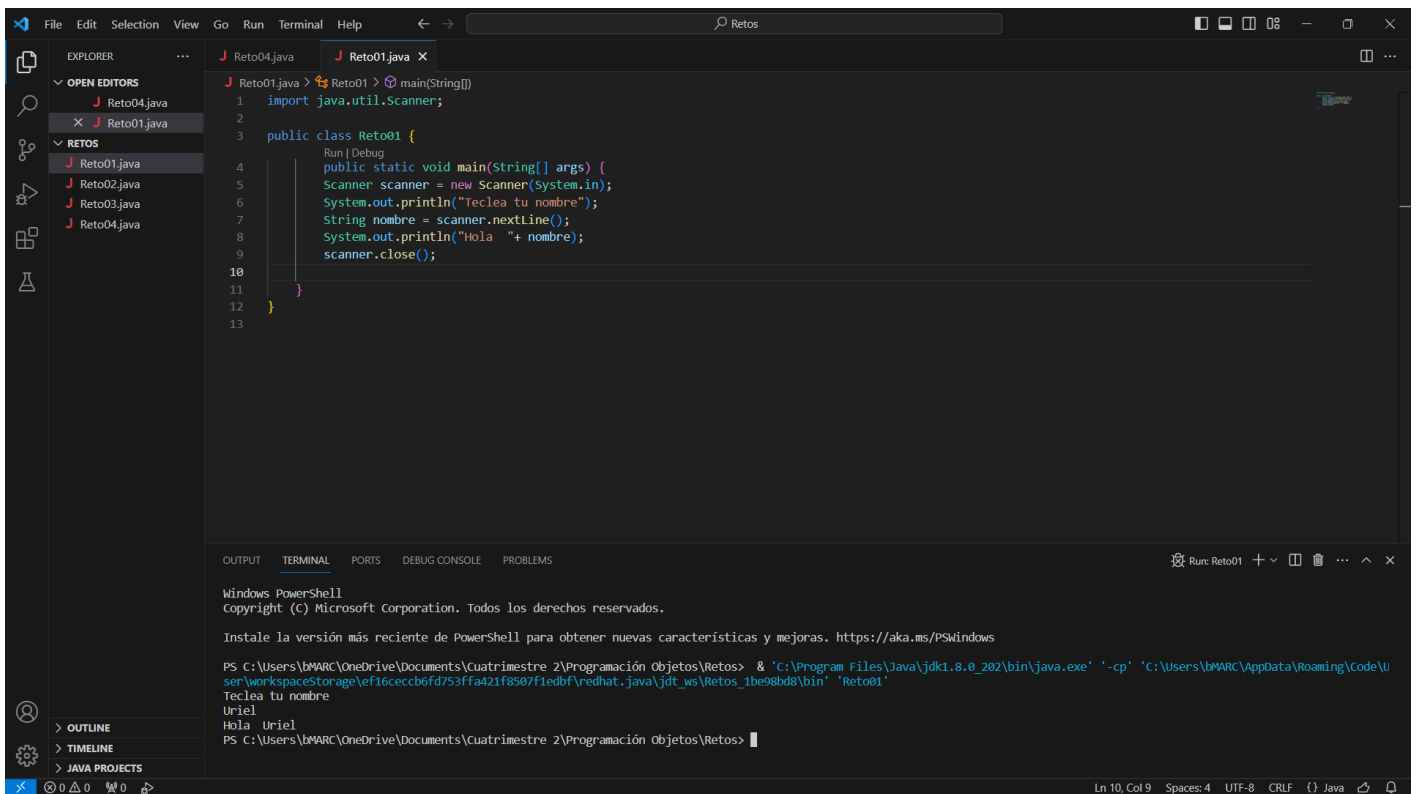
OUTPUT TERMINAL PORTS DEBUG CONSOLE PROBLEMS

Run: Reto02

Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. <https://aka.ms/PSWindows>

```
PS C:\Users\B\MARCO\OneDrive\Documents\Cuatrimestre 2\Programación Objetos\Retos> & 'C:\Program Files\Java\jdk1.8.0_202\bin\java.exe' '-cp' 'C:\Users\B\MARCO\AppData\Roaming\Code\U
ser\workspaceStorage\ef16cecc6fd753ffa421f8507f1edbf\redhat.java\jdt_ws\Retos_1be98bd8\bin' 'Reto02'
```

Selecciona que decesas realizar:  
1 - Crear nueva lista de tareas  
2 - Ver lista de tareas  
3 - Ver tarea de lista  
4 - Actualizar lista de tareas  
5 - Eliminar lista de tareas  
6 - Salir  
4  
Actualizar lista de tareas



```
1 import java.util.Scanner;
2
3 public class Reto01 {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6         System.out.println("Teclea tu nombre");
7         String nombre = scanner.nextLine();
8         System.out.println("Hola " + nombre);
9         scanner.close();
10    }
11 }
12
13
```

OUTPUT TERMINAL PORTS DEBUG CONSOLE PROBLEMS

Run: Reto01

Windows PowerShell  
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Instale la versión más reciente de PowerShell para obtener nuevas características y mejoras. <https://aka.ms/PSWindows>

```
PS C:\Users\B\MARCO\OneDrive\Documents\Cuatrimestre 2\Programación Objetos\Retos> & 'C:\Program Files\Java\jdk1.8.0_202\bin\java.exe' '-cp' 'C:\Users\B\MARCO\AppData\Roaming\Code\U
ser\workspaceStorage\ef16cecc6fd753ffa421f8507f1edbf\redhat.java\jdt_ws\Retos_1be98bd8\bin' 'Reto01'
```

Teclea tu nombre  
Uriel  
Hola Uriel  
PS C:\Users\B\MARCO\OneDrive\Documents\Cuatrimestre 2\Programación Objetos\Retos>

```
File Edit Selection View Go Run Terminal Help
Retos

EXPLORER
  OPEN EDITORS
    Reto03.java
  RETOS
    Reto01.java
    Reto02.java
    Reto03.java
    Reto04.java

J Reto03.java X
  Reto03.java > Reto03 > main(String[])
1 import java.util.Scanner;
2
3 public class Reto03 {
4     public static void main(String[] args) {
5         String mensaje = " ";
6         try (Scanner scanner = new Scanner(System.in)) {
7             System.out.println("Teclea tu calificacion de P.O.O.");
8             int nota = scanner.nextInt();
9
10            if (nota == 10) {
11                mensaje = "Excelente";
12            } else if (nota == 9 || nota == 8) {
13                mensaje = "Muy Bien";
14            } else if (nota == 7) {
15                mensaje = "Bien Hecho";
16            } else if (nota == 6) {
17                mensaje = "Reprobaste";
18            } else if (nota == 5) {
19                mensaje = "Mejor Vuelve a Cursar";
20            } else {
21                mensaje = "Nota No Válida";
22            }
23        }
24
25        System.out.println(mensaje);
26    }
27 }

OUTPUT TERMINAL PORTS DEBUG CONSOLE PROBLEMS
Run: Reto03 + - x

Windows PowerShell
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PS C:\Users\B\MARCO\OneDrive\Documents\Cuatrimestre 2\Programación Objetos\Retos> & 'C:\Program Files\Java\jdk1.8.0_202\bin\java.exe' '-cp' 'C:\Users\B\MARCO\AppData\Roaming\Code\U
ser\workspaceStorage\ef16cecb6fd753ffa421f8507f1edbf\redhat.java\jdt_ws\Retos_1be98bd8\bin' 'Reto03'
Teclea tu calificacion de P.O.O.
6
Reprobaste
PS C:\Users\B\MARCO\OneDrive\Documents\Cuatrimestre 2\Programación Objetos\Retos>
```

```
File Edit Selection View Go Run Terminal Help
Retos

EXPLORER
  OPEN EDITORS
    Reto04.java
  RETOS
    Reto01.java
    Reto02.java
    Reto03.java
    Reto04.java

J Reto04.java X
  Reto04.java > Reto04 > main(String[])
1 import java.util.Scanner;
2
3 public class Reto04 {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6         System.out.println("Teclea tu calificacion de P.O.O.");
7         int nota = scanner.nextInt();
8         scanner.close();
9
10        String mensaje = " ";
11        switch (nota) {
12            case 10:
13                mensaje = "Excelente";
14                break;
15            case 9:
16            case 8:
17                mensaje = "Muy Bien";
18                break;
19            case 7:
20                mensaje = "Bien Hecho";
21                break;
22            case 6:
23                mensaje = "Reprobaste";
24                break;
25            case 5:
26                mensaje = "Mejor Vuelve a Cursar";
27                break;
28            default:
29                mensaje = "Nota No Válida";
30        }
31        System.out.println(mensaje);
32    }
33 }

OUTPUT TERMINAL PORTS DEBUG CONSOLE PROBLEMS
Run: Reto04 + - x

Windows PowerShell
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PS C:\Users\B\MARCO\OneDrive\Documents\Cuatrimestre 2\Programación Objetos\Retos> & 'C:\Program Files\Java\jdk1.8.0_202\bin\java.exe' '-cp' 'C:\Users\B\MARCO\AppData\Roaming\Code\U
ser\workspaceStorage\ef16cecb6fd753ffa421f8507f1edbf\redhat.java\jdt_ws\Retos_1be98bd8\bin' 'Reto04'
Teclea tu calificacion de P.O.O.
9
Muy Bien
PS C:\Users\B\MARCO\OneDrive\Documents\Cuatrimestre 2\Programación Objetos\Retos>
```