

Ejecucion del programa principal

The screenshot shows a Windows desktop environment with a Visual Studio Code (VS Code) window open. The title bar of the VS Code window displays "Polimorif... master" and "Current File Trial". The main area of the window shows the output of a Python script named "main.py". The script demonstrates polymorphism by creating instances of three geometric classes: Cuadrado, Rectangulo, and Circunferencia, each with its own specific methods for calculating area and perimeter.

```
C:\Users\LIXIOZAM10\Proyectos\PythonProject\Polimorfismo_Figura_Geometrica\.venv\Scripts\python.exe C:\Users\LIXIOZAM10\Proyectos\PythonProject\Polimorfismo_Figura_Geometrica\main.py
Cuadrado 1: Cuadrado - Lado: 5
Area: 25
Perimetro: 20

Cuadrado 2: Cuadrado - Lado: 8
Area: 64
Perimetro: 32

Rectangulo 1: Rectangulo - Ancho: 4, Alto: 6
Area: 24
Perimetro: 20

Rectangulo 2: Rectangulo - Ancho: 10, Alto: 3
Area: 30
Perimetro: 26

Circunferencia 1: Circunferencia - Radio: 3
Area: 28.2744
Perimetro: 18.8496

circunferencia 2: Circunferencia - Radio: 5
Area: 78.54
Perimetro: 31.416
```

The status bar at the bottom of the VS Code window indicates the file is "main.py", encoding is "UTF-8", and the Python version is "3.13 (Polimorfismo_Figura_Geometrica)". The taskbar at the bottom of the screen shows various pinned icons, including Microsoft Edge, File Explorer, and Task View. A system tray icon for "Activar Windows" is visible, prompting the user to "Ve a Configuración para activar Windows".

A screenshot of a Windows desktop environment. In the center is a Microsoft Visual Studio Code (VS Code) window with a dark theme. The title bar shows the project name "Polimorfismo_Figura_Geometrica" and the file "main.py". The code editor displays a script that demonstrates polymorphism with geometric shapes. The terminal pane at the bottom shows the execution results:

```
figura_geometrica.py cuadrado.py rectangulo.py circunferencia.py main.py
Run main
...
--- Modificando valores ---
Cuadrado - Lado: 10
Nueva area: 100

Rectangulo - Ancho: 7, Alto: 12
Nueva area: 84

Circunferencia - Radio: 7
Nueva area: 153.9384

--- Probando valores invalidos ---
Intentando crear cuadrado con lado -5:
Error: El ancho debe ser mayor que 0
Error: El alto debe ser mayor que 0

Intentando cambiar ancho del rectangulo a -3:
Error: El ancho debe ser mayor que 0

Intentando cambiar alto del rectangulo a 0:
Error: El alto debe ser mayor que 0

--- Suma de Areas y Perimetros ---
Total de areas: 510.4784
```

The taskbar at the bottom of the screen shows several pinned icons, including Microsoft Edge, File Explorer, Google Chrome, Task View, and File History. A system tray icon for "Activar Windows" is visible, with a tooltip that says "Ve a Configuración para activar Windows." The system clock shows it's 22:58 on November 20, 2025.

A screenshot of a Windows desktop environment. In the center is a Microsoft Visual Studio Code (VS Code) window. The title bar shows the project name "Polimorfismo_Figura_Geometrica" and the branch "master". The status bar at the bottom indicates the file is "main.py", the encoding is "UTF-8", and the Python version is "Python 3.13 (Polimorfismo_Figura_Geometrica)".

The main area of the VS Code window displays the output of a Python script. The output shows:

```
Rectangulo - Ancho: 7, Alto: 12
Nueva area: 84

Circunferencia - Radio: 7
Nueva area: 153.9384

--- Probando valores invalidos ---
Intentando crear cuadrado con lado -5:
Error: El ancho debe ser mayor que 0
Error: El alto debe ser mayor que 0

Intentando cambiar ancho del rectangulo a -3:
Error: El ancho debe ser mayor que 0

Intentando cambiar alto del rectangulo a 0:
Error: El alto debe ser mayor que 0

--- Suma de Areas y Perimetros ---
Total de areas: 510.4784
Total de perimetros: 211.39839999999998

Process finished with exit code 0
```

To the right of the output, there is a "Activar Windows" (Activate Windows) watermark with the text "Ve a Configuración para activar Windows." (Go to Settings to activate Windows.)

The taskbar at the bottom of the screen shows several pinned icons, including File Explorer, Google Chrome, Microsoft Edge, and Microsoft Word.