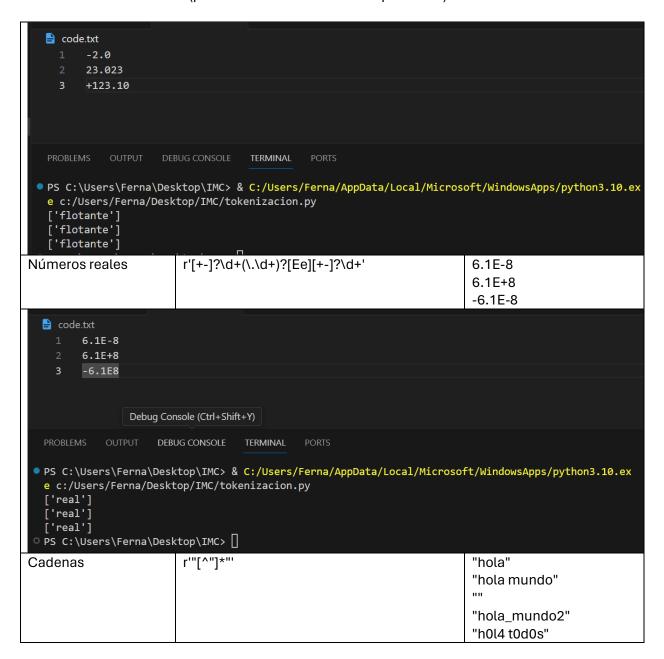
Proyecto: https://replit.com/@a01197622/Tokenizacion?v=1#main.py

Tipo de Lexema	Expresion Regular	Cadenas Probadas		
Identificadores	r'[a-zA-Z_]+[a-zA-Z\d\w]*'	Var1		
		_var1		
		var12_ok		
e code.txt				
1 Var1 2 var1				
2vai1 3 var12_ok				
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS				
<pre>['identificador'] ['identificador'] ['identificador'] PS C:\Users\Ferna\Desk</pre>	op/IMC/tokenizacion.py top\IMC> [
Operadores	r'\+'	+		
	r'-'	-		
	r'*'	*		
	r'/'	/		
	r'\^'	^		
	r'<='	<=		
	r'>='	>=		
	r'!='	!=		
	r'<'	<		
	r'>'	>		
	r'='	=		

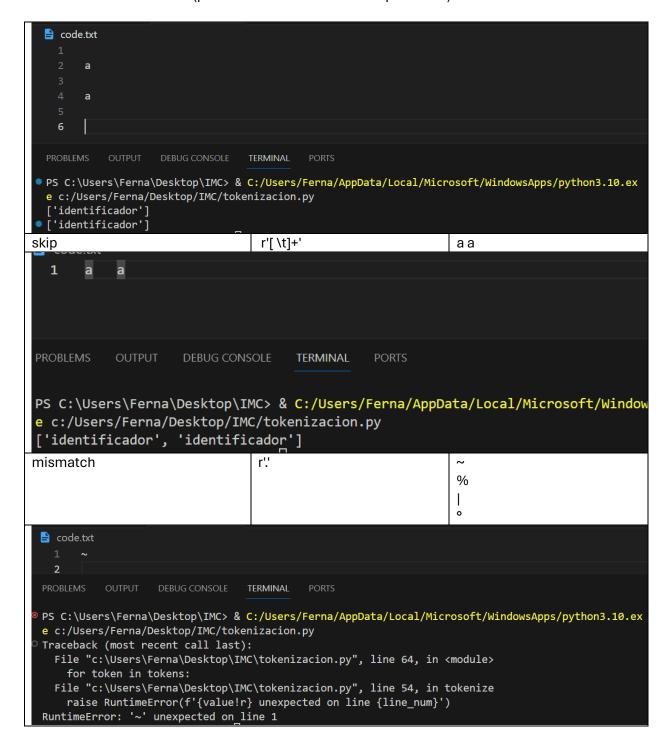
```
11
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 e c:/Users/Ferna/Desktop/IMC/tokenizacion.py
 ['suma']
['resta']
['multiplicación']
  ['division']
  ['potencia']
  ['menor_igual']
  ['mayor_igual']
  ['diferente']
  ['menor_que']
  ['mayor_que']
  ['asignacion']
Enteros
                          r'[+-]?\d+'
                                                                           --2,023
                                                                           +123
                                                                           0123
  code.txt
    1 -2023
    2 +123
         0123
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex
  e c:/Users/Ferna/Desktop/IMC/tokenizacion.py
  ['entero']
  ['entero']
['entero']
 OPS C:\Users\Ferna\Desktop\IMC>
                          r'[+-]?\d+\.\d+'
                                                                           -2.0
Flotantes
                                                                           23.023
                                                                           +123.10
```

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code.txt				
1 "hola"				
2 "hola mundo"				
3 ""				
4 "hola_mundo2"				
5 "h014 t0d0s"				
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS				
<pre>kfra8p0\lib\encodings\cp1252.py", line 23, in decode return codecs.charmap_decode(input,self.errors,decoding_table)[0] UnicodeDecodeError: 'charmap' codec can't decode byte 0x9d in position 9: character maps to <undecoder< pre=""></undecoder<></pre>				
<pre>fined> PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex e c:/Users/Ferna/Desktop/IMC/tokenizacion.py</pre>				
['cadena'] ['cadena']				
['cadena']				
['cadena']				
['cadena']				
Reservadas	Se usa el mismod e los identificadores:	for		
	r'[a-zA-Z_]+[a-zA-Z\d\w]*'	if		
		else		
	luego se comprueba si este identificador se			
	encuentra en el array keyword:			
	if kind == 'identificador' and value in			
	keywords:			
	kind = "reservada"			
code.txt				
1 for 2 if				
3 else				
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS				
PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex e c:/Users/Ferna/Desktop/IMC/tokenizacion.py				
['reservada']				
['reservada']				
['reservada']	ton) TMC> []			
PS C:\Users\Ferna\Desk	· -			
Comentarios	r'//[^\n]*'	// hola mundo		
		//		
	1	// h0l4 tod0s		

1 // hola mundo 2 //				
3 // h014 tod0s_				
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS PS C:\Users\Ferna\Desktop\IMC> & C:\Users\Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex e c:\Users\Ferna/Desktop\IMC/tokenizacion.py ['comentario'] ['comentario'] ['comentario'] PS C:\Users\Ferna\Desktop\IMC> [
Puntuación r'\('		() { } [
code.txt 1 (2) 3 { 4 } 5 [6]				
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex e c:/Users/Ferna/Desktop/IMC/tokenizacion.py ['a_parentesis'] ['c_parentesis'] ['a_corchete'] ['c_corchete'] ['a_corchete_box'] ['c_corchete_box']				
newline (ignorar)	r'\n'	a a		



```
code.txt
   1 %
           OUTPUT DEBUG CONSOLE TERMINAL
 PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex
 e c:/Users/Ferna/Desktop/IMC/tokenizacion.py
 Traceback (most recent call last):
   File "c:\Users\Ferna\Desktop\IMC\tokenizacion.py", line 64, in <module>
     for token in tokens:
   File "c:\Users\Ferna\Desktop\IMC\tokenizacion.py", line 54, in tokenize
     raise RuntimeError(f'{value!r} unexpected on line {line_num}')
 RuntimeError: '%' unexpected on line 1
 PS C:\Users\Ferna\Desktop\IMC>
 code.txt
   1
        П
                                  TERMINAL
 PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex
 e c:/Users/Ferna/Desktop/IMC/tokenizacion.py
 Traceback (most recent call last):
   File "c:\Users\Ferna\Desktop\IMC\tokenizacion.py", line 64, in <module>
     for token in tokens:
   File "c:\Users\Ferna\Desktop\IMC\tokenizacion.py", line 54, in tokenize
     raise RuntimeError(f'{value!r} unexpected on line {line_num}')
 RuntimeError: '|' unexpected on line 1
 PS C:\Users\Ferna\Desktop\IMC>
  code.txt
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex
  e c:/Users/Ferna/Desktop/IMC/tokenizacion.py
  Traceback (most recent call last):
    File "c:\Users\Ferna\Desktop\IMC\tokenizacion.py", line 64, in <module>
      for token in tokens:
    File "c:\Users\Ferna\Desktop\IMC\tokenizacion.py", line 54, in tokenize
      raise RuntimeError(f'{value!r} unexpected on line {line_num}')
  RuntimeError: 'Â' unexpected on line 1
PS C:\Users\Ferna\Desktop\IMC>
Ejemplo
                                  Todas las anteriores
                                                                 b = 7
                                                                 a = 32.4 * (-8.6 - b) / 6.1E-8
                                                                 d = a ^ b // Esto es un
                                                                 comentario
```

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```
code.txt

1 b = 7

2

3 a = 32.4 *(-8.6 - b) / 6.1E-8

4

5 d = a ^ b // Esto es un comentario

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Ferna\Desktop\IMC> & C:/Users/Ferna/AppData/Local/Microsoft/WindowsApps/python3.10.ex
e c:/Users/Ferna/Desktop/IMC/tokenizacion.py
['identificador', 'asignacion', 'entero']
['identificador', 'asignacion', 'flotante', 'multiplicación', 'a_parentesis', 'flotante', 'resta', 'identificador', 'c_parentesis', 'division', 'real']
['identificador', 'asignacion', 'identificador', 'potencia', 'identificador', 'comentario']
PS C:\Users\Ferna\Desktop\IMC>
```