$Hello, \, Lua \LaTeX!$

\dl in the following stands for \directlua, the LuaLATEX command for invoking Lua. Then \dlts{#} stands for \directlua{tex.sprint(#)}, where tex.sprint prints its argument into the output PDF.

1 Easy goals

1.1 Pass a TeXvariable to Lua

It is pretty straightforward:

```
\newcommand{\latexvar}{5}
\newcommand{\latexvare} {Cristina}
\dl{texvar = \latexvar
    texname = '\latexname'}
%
\dlts{texvar} is \dlts{texname}'s
    favorite number.
```

5 is Cristina's favorite number.

1.2 Pass a Lua variable to PDF

It has already been shown, through

```
\dl{name = 'Mario'
    age = 37
    favnum = math.pi
  }
%
\dl{tex.print(name .. ' is ' ..
    age .. ' years old.')}
\dlts{name}'s favorite number is
  {\dlts{favnum}}.
```

Mario is 37 years old. Mario's favorite number is 3.1415926535898.

tex.print is an alternative for tex.sprint. In the following \dlts will be used.

1.3 Pass a Lua variable to TeX

This is a bit trickier. Let's try

```
\newcounter{mycounter}
\setcounter{mycounter}{\dlts{age}}
\newcommand{\luaname}{\dlts{name}}
\arabic{mycounter} is
\luaname's age.
```

37 is Mario's age.