`mcode.sty` Demo

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Usage — 3 ways

1) This inline demo `for i=1:3, disp('cool'); end;` uses the `\mcode{}` command.[1]

2) The following is a block using the `lstlisting` environment.

```matlab
1  for i = 1:3
2      if i ≥ 5                    % literate programming replacement
3          disp('cool');          % comment with some LaTeXin it:  πx²
4      end
5      [¬,ind] = max(vec);
6      x_last = x(1,end);
7      v(end);
8      really really long really really long really really long ...
           really really long really really long line % blaaaaaaaa
9  end
```

Note: Here, the package was loaded with the `framed`, `numbered`, `autolinebreaks` and `useliterate` options. **Please see the top of mcode.sty for a detailed explanation of these options.**

3) Finally, you can also directly include an external m-file from somewhere on your hard drive (the very code you use in MATLAB, if you want) using the `\lstinputlisting{/SOME/PATH/FILENAME.M}` command. If you only want to

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[1]Works also in footnotes: `for i=1:3, disp('cool'); end;`

include certain lines from that file (for instance to skip a header), you can use `\lstinputlisting[firstline=6, lastline=15]{/SOME/PATH/FILENAME.M}`.

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NOTE — BEFORE YOU START

All that this package does is to configure the `listings` package for you. If anything is not working the way you want it, refer to the `listings` documentation first and / or take a look at the `mcode.sty` file itself, which is well documented internally.

The `listings` documentation can be accessed either by typing `texdoc listings` into a command prompt on your system, or online:
`http://mirrors.ctan.org/macros/latex/contrib/listings/listings.pdf`

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