tVar

```
Tnit
require("../tVar.lua")
matrix = require("../matrix")
Global tVar.
 numFormat = "%.3f"
mathEnviroment = "align"
 debugMode = "off"
 outputMode = "RES" -- RES, RES EQ, RES EQ N
 numeration = true
New
 tVar:New(0.04,"r {se}")
 tVec:New({10,2,7},"v {1}")
 tMat:New({\{10,2,5\},\{2,4,3\},\{7,4,3\}\},"a \{2\}"})
Output
 :print() --abh. v OutputMode
 :outFull(number[bool],enviroment[bool])
 :outHalf([bool],[bool])
 :outVar([bool],[bool])
 :out() --nur Wert
Set [tVar]
 :setName([string])
 :setUnit([string])
 :fix(name[string]) --berechn. Schritte entf.
```

Misc

\end{luacode*}

```
[tVar]:bracR() --Runde Klammern
 [tVar]:CRLF([string]) --neuwline, [string]
 wird vor und nach Umbruch eingefügt
Math
 tVar.sqrt([tVar],[number])
 t.Var.PI
 [tMat]:T() --Transponieren
 [tMatl:Det()
 [tMat]:Inv()
 [tVec]:crossP()
Example
 \begin{luacode*}
 require("../tVar.lua")
 matrix = require("../matrix")
 numFormat = "%.2f"
 outputMode = "RES EQ N"
 numeration = false
 sigma x = tVar:New(11.4,"\sigma {x}")
 tau xy = tVar:New(2.43,"\backslash tau \{xy\}")
 sigma v = tVar.sgrt(sigma x^2+3*tau xy^2,2)
 sigma v:setName("\\sigma {v}")
 sigma v:setUnit("N/m^2")
 sigma v:print()
```