PART I examples from the website of the lecture.
Notes: erroneous inputs are deleted.

#<LISPWORKS-TOOLS:EDITOR "Editor 1 - jw3123.lsp" 21ACD763>

CL-USER 1 > match '() '()
T

CL-USER 2 > match '(ai) '(ai)
T

CL-USER 3 > match '(ai cs) '(ai cs)
T

CL-USER 4 > match '(cs ai) '(ai cs)
NIL

CL-USER 5 > match '(1 2 3 0) '(1 2 3 4 0)
NIL

CL-USER 6 > match '(? mudd) '(seely mudd)
T

CL-USER 7 > match '(?first ?middle mudd) '(seely w mudd)
((?MIDDLE W) (?FIRST SEELY))

CL-USER 8 > match '(? ?x ? ?y ?) '(Warren Buffet Is A Good Man)
NIL

CL-USER 9 > match '(School Of Engineering and Applied Science) '(School Of Engineering)
NIL

CL-USER 10 > match '(* School Of Engineering and Applied Science) '(The Fu Foundation School Of Engineering and Applied Science)
T

```
CL-USER 11 > match '(The * School Of Engineering and Applied Science) '(The Fu Foundation School Of Engineering and Applied Science)
T

CL-USER 12 > match    '(The * School Of Engineering and Applied Science)    '(The School Of Engineering and Applied Science)
T

CL-USER 15 > match '(* 3 ?x 4 *) ' (3 5 4)
((?X 5))

CL-USER 16 > match '( ?x (1 2) ?y (4 5)) '(c (1 2) d (4 5))
((?Y D) (?X C))

CL-USER 18 : 1 > match '(?y ?z (c v)) '(8 gh (c v) )
((?Z GH) (?Y 8))

CL-USER 19 : 1 > match '(((get) me) out)    '(get (me (out)))
NIL

CL-USER 20 : 1 > match '(A * B) '(A A A A A B)
T
CL-USER 22 : 2 > match '(A * B) '(A A A A A B)
T

CL-USER 23 : 2 > match '(?x * ?y) '(A A A A A B)
((?Y B) (?X A))

CL-USER 24 : 2 > match '(a ?x !x) '(a 5 5)
NIL

CL-USER 25 : 2 > match '(a ?x !x)
(A ?X !X)

CL-USER 26 : 2 > '(a 5 4)
```

(A 5 4)

CL-USER 27 : 2 > match '(a ?x !x) '(a 5 4)
((?X 5))

CL-USER 28 : 2 > match '(a ?x ?y) '(a (a b) c)
((?Y C) (?X (A B)))

CL-USER 29 : 2 > match '(?x ?y ?z (& <x >y !z)) '(10 5 7 8)
((?Z 7) (?Y 5) (?X 10))

CL-USER 30 : 2 > match '(ai ?y !y) '(ai cs cs)
NIL

CL-USER 31 : 2 > match '(ai ?x ?y (& ?x ?y)) '(ai cs cs cs)
((?Y CS) (?X CS))

CL-USER 32 : 2 >match '(* ?x * ?y (& !x !y))
(* ?X * ?Y (& !X !Y))

CL-USER 34 : 2 > match '(* ?x * ?y (& !x !y)) '(a b c d)
(((?Y C) (?X A)) ((?Y C) (?X B)))

PART II the “horrible example” from the slide of the lecture:

#<LISPWORKS-TOOLS:EDITOR "Editor 1 - jw3123.lsp" 21ACD763>

CL-USER 1 > match '(((((* ?x * (* ((* ?y * ?) (?z b)) (* ?u)) ? g *))))
* ?v ? t) '(((((8 x (z ((y x z f g) (z b)) (a b u)) g g)))) v t
t)
(((?V V) (?U U) (?Z Z) (?Y Y) (?X 8)) ((?V V) (?U U) (?Z Z) (?Y X) (?X 8)) ((?V V) (?U U) (?Z Z) (?Y Z) (?X 8)) ((?V V) (?U U) (?Z Z) (?Y F) (?X 8)) ((?V V) (?U U) (?Z Z) (?Y Y) (?X X)) ((?V V) (?U U) (?Z Z) (?Y X) (?X X)) ((?V V) (?U U) (?Z Z) (?Y Z) (?X X)) ((?V V) (?U U) (?Z Z) (?Y F) (?X X)))

Part III Self designed examples:

```
CL-USER 2 > match '(?x ?y !x (?z (?x ?y) 3)) '(1 2 2 (5 (1 2) 3 ))
((?Z 5) (?Y 2) (?X 1))

CL-USER 3 > match '(* ?x * ?z    * ?z (?x !y) *) '(5 8 1 4 6 2 (4 4) 5 8 4 1    )
NIL

CL-USER 4 > match '(* ?x * ?z    * ?y (?x !y) *) '(5 8 1 4 6 2 (4 4) 5 8 4 1    )
((?Y 2) (?Z 6) (?X 4))



CL-USER 1 > match '(?x (?x) ((?x) (?x)) (& >x) ) '(1 (1) ((1) (1)) 4 )
((?X 1))

CL-USER 2 > match '(?x (?x) * ) '(1 (1) ((1) (1)) 4 )
((?X 1))
```