MOL Assignment 3 Part 2 Question 2

Initial atilities:

0	-1	+1
0	0	0
0	wall.	0
0	0	0

We use the formula

with p=0.7

Iteration 1

dien: -0.04 + 0.95(0,7×0+0.15x-1+0.15) = -0.1825

right = -0.04 + 0.95(0.7x-1 + 0.15x0+0.196) = -0.705

left = -0.04 + 0.95(0.7x o+ 0.196+0.196) = -0.04

max = -0.04

Mox = -0.05

Iteration 2 (e) d up: -0.09 + 0.9 CO.7x -0.04 +0: (6x-0.04 +0:15x-0.04) =-0.211 dan: 1 =-0.215 7/ht: -0.04+ 0.95 (0.7x-1+ 0.15x-0.04 +0.15x-0.04) = -0.7161 left: -0.04 10.95 (0.7x-0.04 +0.15x-0.04 +0.15x-0.05) = -0.078 mex = -0.078 100 0.04 1.0.95 (6.71-100 150-0-01 0-150-0-01) 0-165 (10) up: -0.04+0.95 (0.7x-0.04+0.15x-0.04) =-0.078 dom: " ' = -0.078

sight ' | = -0.078

lift ' | | = -0.078 Mex = -0.078 (11) up: -0.04 to.95 (0.71-1+0.18-0.64+015x-0.04) = -0.7164 dom: -0-04+0.95(071-0.04+0:15x-0.05+0:157-0.05)=-0.078 dylt = -0.09+0.95 (6-7×0.675+0.15x-1+0.15x-0.04) =,0.227425 left = -0.09 + 0.95 (0.3x-0.04 +0.15x-1+0.15x-0.05) = -0.2149 Max = 0.227 425 (12) up: -0.64+0.95(0.7+0.154-0.04+0.1540.628) = 0.9083625 down: -0.04+0.95(0.74-0.04+0.154-0.01+0.154.6.625)=0.0167625 89ht: -0.04 +0.9 5 (0.9 × 6.625+0.15+6.15x-0.64) = 0.51 2423 6+: -0-04 + 0.95 (0.7x-0.05+0.15+0.15+0.07) = 0.0702 Mix = 0.7083625 (2,0) up: -0.04+0.95 (0.74-0.04+0.15x-0.05+0.15x-0.04) =-0.078 (2,2) up: -0.0 4 0.95(6.7x 0.625 + 0.15x-0.05 +0.15x-0.04) = 6.364275 · horn: -0.04 +0.95 (0.7x-0.09+0.15x-0.05 +0.15x-0.06) = -0.078 right: -004 + 0.95 (0.74-0.04 +0:15x 0.025+0.15x-0.04) =0.0167625 1 = 0.016763 0.364225 Want:

up = -0.04+0.95(0.7x-0.04+0.15x-0.05+0.15x-0.05) 60), 3, 1, 6,2) 1 -- 0.078 left = Nex = -0-07.8 -6-072 8 +0-0-0.708 0-227 -0.078 wall 0-364 -0.072 -8-078 -0.07 8 They calmes match the output from code.