BEATRIZ U. ASUMCION

Exercise #3

Rschool = 5

Rstay = [-5]

Step 1:

For Sunny:

(x = 0.5 (5) + 0.5 (-5) = 2.5 + (-2.5) = 0 For (loudy:

(T = 0.5(3)+0.5(1) = 1.5+0.5=2

Step 2:

Row ((Sunny):

· PT (1,1) = 0.5 (0.8) + 0.5 (0A) = 0.4 + 0.45 = 0.85

· PT (1,2)=0.5 (0.2) +0.5 (0.1)=0.1 + 0.05=0.15

Row 2 (cloudy):

· Par (2,1) = 0.5 (0.4) + 0.5 (0.3) = 0.2 + 0.15 = 0.35

·PT (2,2)= 0.5 (0.6) + 0.5 (0.7) = 0.3 + 0.35 = 0.65

Step 3: (Sunny)

V=0+0.9 (0.85 v, + 0.15 v2

V. - 0 + 0.7650, + 0. 135 ve

2,=0.7652, -0.13522 =0

step 3 : (cloudy)

22: 2 40. a (0.352, + 0.6622)

V2: 2 + 0.315v, + 0.58522

V2 = -0.315 - 0.585 = 2

[VIT (Sunny) = 9.911]

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Step 5.
  For Sumy (2,) using school:
       2 (sunny)=5+0.9(0.80, +0.2vz)
           V, = 5+0.72v, +0-18 NZ
           V1:0.72-0.18N2:5
           Myx 0.28 v1 = 0.1622=5
  For Cloudy (V2) using School:
       V*(c1.0dy)=3+0.9(04)+0.602)
              Ve= 3+0.36~, +0.5922
             Vz=-036N, -0. 5922 = 3
            -0.3601+0.4622=31
Step 6:
  From Sunny: 0.282, = 5+0.1822 From Cloudy: -0.362, +0.4622 $3
              V1 = 5 + 0.1922
                                          4 0.36 (5+0.1822) +0.46v2-3
Step 6 (cloudy):
 -0.36 (5+0.1822) + 0.4622 = 3
(-0.36 × 5) (-0.36 × 0.182) + 0.4622 = 3
 -6.429-0.23/vito.4602=3
 -6.929+ 0.229 vz = 3
                                       V1 = 5+0-18 22
 0.22921 = 3+6.929
 0.229~2=9. 129
                                       V1= 5+0.18(91.175
 V+ (dody) = 95/29 = 41.175
                                      V1=5+7.412 12 -912
                                      1 (sunny) 7 44.329
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Step 7: 9(1,5chool) = 5 + 0.9(0.83 + 0.2vz) = 44.33 9(1, Home) = -5 + 0.9(0.9v + 0.12z) = 34.61 9(2,5hool) = 3 + 0.9(0.9v + 0.6vz) = 41.189(2,5hool) = 1 + 0.9(0.3v + 0.6vz) = 38.91