Policy Iteration Calculations

Default State First Iteration Vi= r(i) +> V(S,) Vo=-0.04+0.9[0.8(d)+0,1(d)+0,1(d)] =F0.041 $V_1 = -0.04 + 0.9[0.8(0) + 0.1(0) + 0.1(0)]$ $V_2 = -0.04 + 0.9 [0.8(0) + 0.1(-9.04) + 0.1(0)]$ =-0.04+0,9(-0,004)=[-0.0436 V4 = (-1000) V5=[1000] 1000+009(0) $\begin{array}{lll}
 & V_{8} = -0.04 + 0.9[0.8(0) + 0.1(0) + 0.1(0)] \\
 & V_{8} = -0.04 + 0.9[0.8(0) + 0.1(-100) + 0.1(0)]
\end{array}$ -0.04+0.9E-100]=1-90.04) Vg==0,04+0,9(0,8(1000)+0.1(-90.04)+0.1(0)] =-0.04 +0.9E790,996]=[711,8564] V10=-9,04+0.9[0,8(0)+0.1(8)+0.1(8)] $V_{11} = -9.0440.9[0,8(-0.04)+0.1(-0.34)+0.1(0)]$ =-0.04+0,9(-0.036)=[-0.0724, V12=-0.04+0.9[0.8(0)+0.1(-90.04)+0.1(0)) =-0.04+0.9C-9.004]=[-8.1436] V13 = -0,04+0,9C0,8(-8,1436)+0,1(711,8564) +0,1(0)]=-0,94+0,9C64,67076] +58,163684 V15=-0.,04+0,900.8(0)+0,1(-0.0724)+0.1(0) =-0.04+0,9C-0.00724)=F0.0+6516

First Iteration State

 $V_{13} = -0.04 + 0.9 [0.8(71,77366004) + 0.9(711,8564) + 0.1(58.163684)]$ = -0.04 + 0.9 [134.420936432] = [120,938842789] $V_{15} = -0.04 + 0.9 [0.8 [-0.046516] + 0.16-0.12280504) + 0.160.046516)]$ = -0.04 + 0.9 [-0.95 + 144904] = [-0.0887304136]

Second Iteration State

Vo= -90,0724	1V=89,9250	V2=8.0179	
V4=-1900	V5=1900		V_=-0.0789
Vg=349,7637	Vg=1398.6251	-> Vio=-0.0993	V ₁₁ =-0,1228
-> V12=71,7737	V ₁₃ =129,9388		V15=-0.0887