Tordan Handwegen Exercise 1 1. Finite Path Fragment: Ned, red/yellow, green 2. Infinite poth fragment that is not a path: green, yellow, red, ... 3. Infinite path fragment that is a path: red, red/yellow, green... 4. No, there are no finite paths because there are no terminal states. 1. P= \(\alpha \alpha \alpha \). \(\text{Lodigocen, yellow} \(\alpha \) \(\text{Lizo} \). \(\text{Evedigocen, yellow} \) \(\alpha \) \(\text{Lizo} \) I - (red A green A yellow) 3. P= {A.A.... E (2AP) W \ \ti>O. red EAi => green \ Ai+i} [red => O - green) 4. P= {A. A... E (ZAP) W \ \ti=0 Fj=i. red \ Ai => green \ AB} [red > > green) 5. P= {Ao Ar...∈(AP) | ∃izo ∀jzi. re& ∈Aj → yellow ∈Ajtl ∧ green ∈ Ajtl ∧ OD (red = 0 yellow = 0 green = 0 red)