Compulsory Assignment I

Download and install **Python** from *http://www.python.org* **Implement the following program and justify your results:**

- Create 5 Tsetlin Automata with actions "No" and "Yes"
- Count the number of Tsetlin Automata that outputs a "Yes"-action
- - If M = 0 OR 1 OR 2 OR 3: Give each Automaton a reward with probability M * 0.2, otherwise a penalty
 - If M = 4 OR 5: Give each Automaton a reward with probability 0.6 (M 3) * 0.2, otherwise a penalty
- 4 Goto 2

Remark: Generate the rewards independently for each automaton

Assignment Assignment

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Deliverables:

- Brief report on Fronter documenting implementation and results
- Calculate average performance on 100 separate runs
- Calculate average performance with different number of states (e.g., 1,2,3,5,10)
- Five minutes presentation of solution Wednesday
 September 9