```
procedure RUN-ENVIRONMENT(state, UPDATE-FN, agents, termination)
  inputs: state, the initial state of the environment
          UPDATE-FN, function to modify the environment
          agents, a set of agents
          termination, a predicate to test when we are done

  repeat
    for each agent in agents do
      PERCEPT[agent] ← GET-PERCEPT(agent, state)
    end
    for each agent in agents do
      ACTION[agent] ← PROGRAM[agent](PERCEPT[agent])
    end
    state ← UPDATE-FN(actions, agents, state)
  until termination(state)
```