Strategies: 1. Savings (inadequate) -> investment (save)

2. Savings (adequate) 1 income (adequate) -> investment (stock)

3. Savings (adequate) 1 income (inadequate) -> investment (combo)

Predicates needed: minSavings (x) = 5000*X, minIncome(x) = 1/4*4000 + 15000

greater(x, y) = x > y

Interms of our Problem: Saved Amount (15000), earnings (30,000, steady), dependents (4)

```
unify ((dependents 4), (dependents X1)) - return = {4/x1}
     Unify ((earnings 230000 Steady), (earnings & X2 Steady)) - return = {30000/x3
     Unity (Gaved Amount 15000), (saved Amount x3)) - return = {15000/x3}
      Yx, earnings(x, steady) A = x{dependents(xz) A - 1 greater (30000, minincome(xs)
      -> income (inadequate)
     Substituting...
      larnings (30000, steady) , dependents (4) 1 7 greater (30000, 31000)
      -> income(inadequate)
   * James income is inadequate.
      Yx, SayedAmount(x1) 1 Ixz dependents(x2) 1 Igreater(x2 minsavings(x2)
         -> Savings (inadequate)
      Substituting ...
      Swedtmant (15000) 1 dependents (4) 17 greater (15000, 20000)
      --> Savings (madequate)
    * James Savings 15 dinadequate.
    Savings(madequate) -> Investment(Savings)
     Janes savings are madequate, therefore, sne should invest in savings.
3. Diagnostic Sentences:
       " If the engine is faulty and the vehicle is emmitting a clicking noise
          and the lights come on, then the problem is the starter"
    2. "If the engine is not working and the lights come on and the vehicle is not emmitting clicking noises, then the problem
          is that its out of gas."
         "If the engine is notworking and the lights won't come on
           and the venicle is not ammitting clicking noises, then the
           Problem is the battery"
    Features: Engine (working), Engine (faulty), Lights (on), Lights (off),
```

Problem (Starter), Problem (Gas), Problem (Battery)

Emmitting Noise (clicking), Emitting Noise (None)

Predicate Sentences:

- 1. Engine (faulty) A Lights (On) A Emmitting Noise (clicking)

 Problem (Starter)
- 2. TEngine (working) 1 Lights (on) 1 Emmitting Noise (None)

 —> Problem (Gas)
- 3. TEngine (working) 1 Lights (off) 1 Emmitting Noise (None)

 Problem (Battery)