```
#!/usr/bin/env ruby -w
 3
   require "yaml"
 4
    # An address book
 5
 6
7
   def prompt(addresses)
 8
     menu = "
 9
     1. Look for someone
10
     2. Enter some data
11
      3. Show all entries
12
      4. Getouttahere (quit)
13
14
     loop do
15
16
       puts menu
17
        # Chomp is used all over the place in order to get rid of newline characters (\n)
18
19
        input = gets.chomp
20
21
       next if input == nil
22
23
        case input
24
       when '1'
25
         look_for_someone(addresses)
26
       when '2'
27
         enter_data(addresses)
       when '3'
28
29
         show_all(addresses)
30
       when '4'
        puts "Writing stuff down..."
31
32
          File.open("addresses.yaml", "w") { |f| YAML.dump(addresses, f) }
33
           puts "Done! See you later!"
34
35
          puts "Uh oh... there's been a problem, so you might have lost some data."
36
37
          end
38
39
          exit
       else
40
41
         puts "Please select a command from the menu"
42
43
     end
44
    end
45
   def look_for_someone(addresses)
46
    puts "Who or what would you like to look for?"
47
48
      query = gets.chomp
49
50
      # Look for it directly (fastest, constant time lookup)
51
52
      if addresses.has_key?(query)
       result = addresses[query]
53
54
55
56
        # We couldn't find a direct lookup, so just hunt through everything else
57
        found_entries = addresses.select do |key, value|
58
         key.downcase.include?(query.downcase) || value.downcase.include?(query.downcase)
59
60
61
        if found_entries.empty?
         puts "Sorry, I couldn't find anything that matches your request."
62
63
       else
         # We got something.
65
         result = ""
66
         found_entries.each do |key, value|
67
           result << "#{key}\t#{value}\n"
68
         end
         puts result
69
70
        end
71
72
     end
73
   end
```

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```
74
 75
    def enter_data(addresses)
      puts "I'm gonna need a name, and some other address-like stuff, ok?
76
77
    It'll happen in two steps. Be cool."
 78
 79
       puts "\nPlease enter a name (and hit <return> when you're done.)"
 80
       name = gets.chomp
 81
 82
     puts "\nGreat. Now enter some address-data all on one line. (Hit <enter> when you're done.)"
 83
       address = gets.chomp
 84
 85
      if addresses.has_key?(name)
 86
        puts "\nWhoa whoa whoa... We've already got that guy in here. Are you sure you want to overwrite that entry?
 87 Enter 'yes' or 'no':"
        if gets.include?('y')
 88
 89
         puts "Alright, I wrote over the entry."
          addresses[name] = address
 90
 91
 92
         puts "Ok, I didn't do anything."
 93
        end
 94
 95
      else
 96
        # A fresh new entry
        puts "Entry added:'
 97
       puts "#{name}\t#{address}"
 98
99
        addresses[name] = address
100
      end
101
    end
102
103 def show_all(addresses)
104
     addresses.each do | key, value |
105
       puts "#{key}\t#{value}"
     end
106
107
    end
108
109 begin
     addresses = YAML.load_file("addresses.yaml")
110
      puts "No address file found. This must be your first time."
112
      addresses = {}
113
114 end
115
116 puts "Hi, this is an address book. What would you like to do?"
117
118 prompt(addresses)
119
```

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