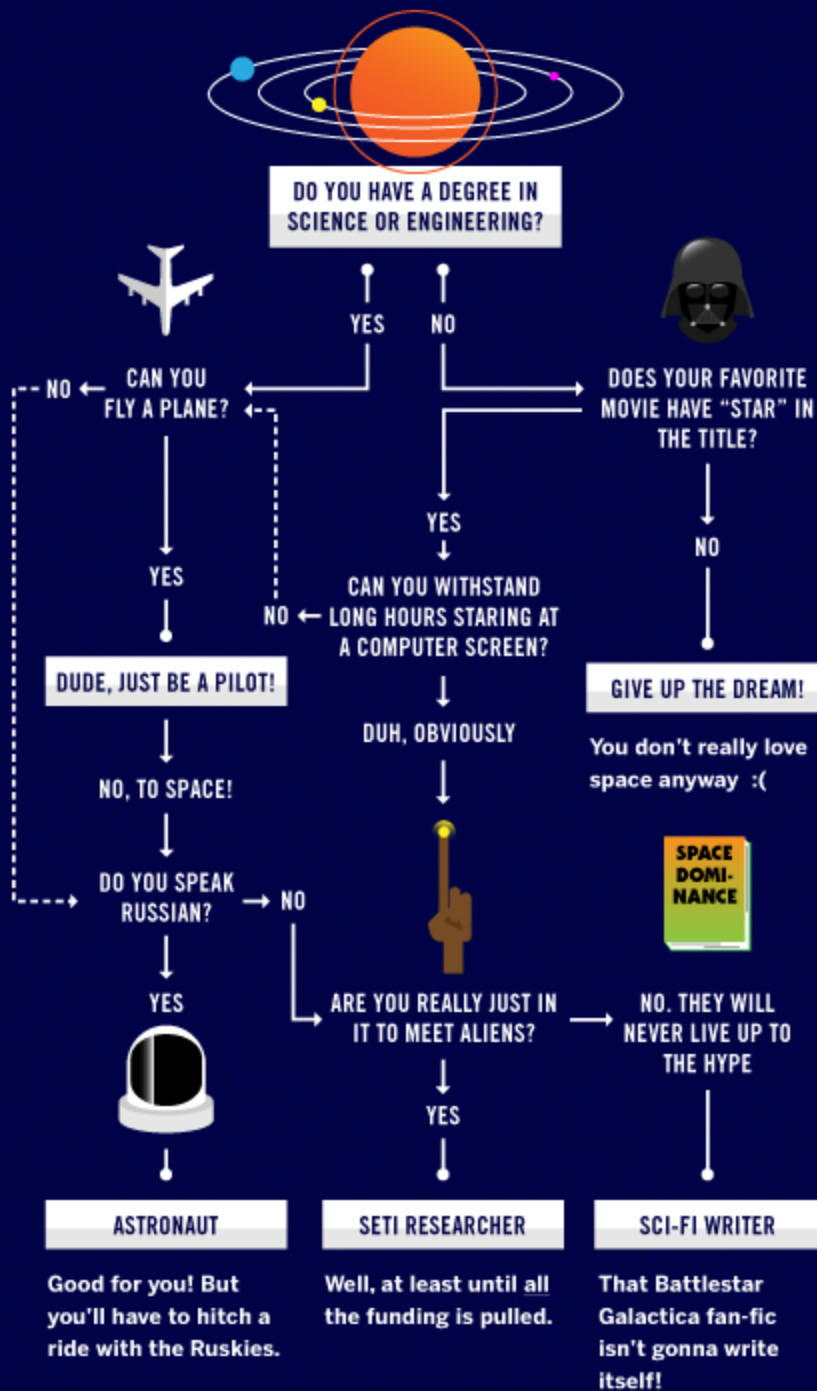# Programming Exercise I

Using the flow chart below, model a subject so that it can respond to the questions presented.
Write class(es) and method(s) in code or pseudo-code to apply the logic to the subject.
Use a database to store the questions in a manner that allows the supporting code to be extensible.
Demonstrate a means to test the code.

What is the Ideal Space Career for You?

DO YOU HAVE A DEGREE IN SCIENCE OR ENGINEERING?

YES NO

CAN YOU FLY A PLANE?

NO

YES

DOES YOUR FAVORITE MOVIE HAVE "STAR" IN THE TITLE?

NO

CAN YOU WITHSTAND LONG HOURS STARING AT A COMPUTER SCREEN?

NO

YES

DUDE, JUST BE A PILOT!

GIVE UP THE DREAM!

You don't really love space anyway :(

DUH, OBVIOUSLY

NO, TO SPACE!

DO YOU SPEAK RUSSIAN? → NO

YES

SPACE DOMI-NANCE

ARE YOU REALLY JUST IN IT TO MEET ALIENS?

NO. THEY WILL NEVER LIVE UP TO THE HYPE

YES

ASTRONAUT

Good for you! But you'll have to hitch a ride with the Ruskies.

SETI RESEARCHER

Well, at least until all the funding is pulled.

SCI-FI WRITER

That Battlestar Galactica fan-fic isn't gonna write itself!

GOOD

Deliverables

- A dump/export of the database schema and data
- A diagram of the database schema
- Code (any language) or Pseudo-code which executes the program
- If submitting pseudo-code then also submit state diagram of the execution flow
- 2-3 paragraphs describing the overall approach