Topics: Problem solving, MATLAB program, variable & assignment, input, sequential execution
Reading (ML): Sec 3,1, 3.2, 2.1, 2.2, 2.5, 2.8 (exclude *matrix* operations), 2.9
         (JV): p 1–23 *optional*

Steps in Problem Solving

Definitions

- **Algorithm**: a set of procedures for solving a problem

- **Program**: an algorithm written in some language

- **Variable**: a named space or location for storing a value

- **Assignment**: the action of putting a value into a named space (variable)

- **Expression**: a combination of operators and operands (variables, constants)

Example: Temperature conversion

```
(40-32)*5/9  % convert temp from F to C
```

```
% Convert temp from F to C
  tempF = 42;
  tempC = (tempF-32)*5/9
```

Sequential execution of statements

Input statement

Syntax: *variable* = **input**(*'prompt'*)