1. Decomposition and 2. Pattern Recognition

This program reads data for two people and computes their body mass index (BMI).

Enter next person's information:
height (in inches)? 70.0
weight (in pounds)? 194.25

Enter next person's information:
height (in inches)? 62.5
weight (in pounds)? 130.5

Person 1 BMI = 27.868928571428572
overweight

Person 2 BMI = 23.485824
normal

Difference = 4.3831045714285715

3. Abstraction

intro()
- Input: none
- Returns: nothing

getBMI()
- Input: none
- Returns: BMI value

reportBMI()
- Input: person #
  BMI value
- Returns: nothing

reportDiffs()
- Input: both BMI values
- Returns: nothing

Computational Thinking

1. Decomposition
2. Pattern Recognition
3. Abstraction
4. Algorithm

4. Algorithm

main()
- Set up scanner (as a field?)
- intro()
- getBMI() for BMI 1
- getBMI () for BMI 2
- reportBMI () for BMI 1
- reportBMI () for BMI 2
- reportDiffs

getBMI()
- “Enter <#> person’s…”
- get height
- get weight
- calc and return bmiValue

reportBMI()
- “Person # BMI =“ + bmiValue
- categorize … if/else if/else

reportDiffs()
- bmi1 – bmi2