

## Programming Exercise 4A

**NOTE:** All programs that you write must have comments at the top with 1) the program name, 2) your name, and 3) a sentence describing what the program does.

1. Create a program called **Program4A1** that will do the following:
  - Ask the user to enter two words
  - Check to see if the two words have the same first and last letters. Print a statement to say if they do or not.
  - Check to see if the second word is inside the first word. Print a statement to say if this is true or not.
  
2. Create a program called **Program4A2** that will do the following:
  - Ask the user to enter a sentence.
  - Use the split function to break the sentence into words and then print the first letter of each word. Print all the letters together with no spaces.  
(Ex – If the user were to enter **House of my elephant**, then the program should print **Home**)  
\*In the notes there is a program that breaks a sentence into words and then adds up the lengths of those words. You can use that as a starting point.
  
3. Create a program called **Program4A3** that will do the following:
  - Ask the user to enter a password
  - Make sure the password meets the following requirements:
    - It must be at least 8 characters long
    - It must have at least one number in it.
    - It must have at least one of the following characters: ! & \* % \$
  - Print a statement saying if the password meets the requirements or not, and which requirement is not met if there's a problem.  
(Hint – you may want to use the in function to check for the numeric digits and symbol requirements. Also, when checking for digits, put them in single quotes, like '0'.)