1. What do the following lines of code do?
   a. Open(“X:\inputstuff.txt”) for input as 1
   
   b. Open(“X:\classgrade.txt”) for output as 2
   
   c. Open(“X:\recordeddata.txt”) for append as 3
   
   d. Input #1, Diameter
   
   e. Close 1
   
   f. Print # 3
   
   g. Print # 3, “The Radius is”
   
   h. Print # 3, Radius; “cm” ‘note variable Radius =1/2(Diameter)
   
   i. Write # 3
   
   j. Close

2. For problems a-c above, what will happen when the requested file does not exist?
3. Create a program that creates an array that equals is taken from from the file weekdays.txt and then outputs the sixth day of the week into a file called today.txt. (the weekdays file consists of 7 rows labeled Sunday through Saturday).

4. Create a program that analyses the data from the file Temp&Vol.txt found in folder, Engineering_is_FuN, and creates file Idea_Conditions.txt that contains the Volume at the maximum temperature and Average Temperature. (the Temp&Vol file consists of column headers temperature and volume, which are followed by 50 rows of temperatures and Volumes.)