Learning Objectives:
- Develop simple Python programs that do manipulate strings and lists.

1 – 6. Demonstrate your code to an instructor.

1. Write a program that takes a sentence entered by the user and prints the words in reverse order. Use the list `append` function to construct a list with the words in reverse order. Then use the string `join` function to print out the words separated by a comma.

2. Write a program that prompts the user for the amount of an investment, the annualized interest rate, and the number of years of the investment. The program will then output a nicely formatted table that tracks the value of the investment year by year. See problem number 12 on page 164 for an example output. The value after one year is given by \( \text{principal} \times (1 + apr) \). Use a for loop to solve the problem.

3. Write a program that reverses a string. You must use the append function in your code, and you may not use the reverse function provided by Python. Example: “Paul Anderson” becomes “nosrednA luaP”

4. Write a program that calculates the average length of a word in a series of sentences. First, prompt the user for the number of sentences to input. Then have the user enter in each sentence. Finally, print out the average word length for each sentence in a formatted table and the overall average for all sentences.

5. Write a program that converts a binary number to a decimal number.

6. Write a program that converts a decimal number to a binary number.

7. Upload the files to your OAKS account.

8. If you left any file on the desktop, remove them. Log off of your computer.