1. Write a function that takes a percentage grade (0-100) as an argument and returns the letter grade (A, B, etc.) For example, if your function was called get_letter_grade, a statement like get_letter_grade(75) would return ‘C’. Write a program that uses your function.

```python
# SOLUTIONS: In-Class Assignment – September 26, 2013 – Problem 1

def convert_to_letter_grade(percent_grade):
    if percent_grade >= 90:
        return "A"
    else:
        if percent_grade >= 80:
            return "B"
        else:
            if percent_grade >= 70:
                return "C"
            else:
                if percent_grade >= 60:
                    return "D"
                else:
                    return "F"

percent = float(input("What was your grade (out of 100)? "))
letter = convert_to_letter_grade(percent)
if letter == "A":
    print("Your grade was an", letter)
else:
    print("Your grade was a", letter)
```

2. Write a program that finds the largest of three numbers. Can you think of a way to write this program using functions?

```python
# SOLUTIONS: In-Class Assignment – September 26, 2013 – Problem 2

num1 = float(input("Please enter a number. "))
num2 = float(input("And another number. "))
num3 = float(input("And finally, please enter a third number. "))
if num1 >= num2:
    if num1 >= num3:
        print("The largest number is ", num1)
```
else:
    if num2 >= num3:
        print("The largest number is ", num2)
    else:
        print("The largest number is ", num3)

Here is an alternative solution using functions. Notice how much simpler it is than the
previous solution!

# 1st SOLUTION with functions: In–Class Assignment – September
26, 2013 – Problem 2

def larger_number_is(number1, number2):
    if number1 >= number2:
        return number1
    else:
        return number2

num1 = float(input("Please enter a number. "))
num2 = float(input("And another number. "))
num3 = float(input("And finally, please enter a third number. "))
largest = larger_number_is(num1, num2)
largest = larger_number_is(largest, num3)
print("The largest of the three numbers is", largest)