Write C programs for the following

1st Semester, Programming Lab 1

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1. Print the rightmost digit of an integer.
2. Calculate the average of four integers and print the numbers and their deviation from the average.
3. Enter an angle measured in radians and convert it into degrees. [one radian =57.295 degrees]
4. Calculate a student's average score for a course with 4 quizzes, 2 midterms, and a final. The quizzes are weighted 30%, the midterms 40%, and the final 30%.
5. Extract and print the second rightmost digit of the integral portion of a float.
6. Compute the area and perimeter of a rectangle from a user supplied length and width.
7. Enter a temperature in Fahrenheit and print the equivalent in Celsius.
   Celsius= (100/180)*(Fahrenheit-32)
8. Calculate and print the next two numbers in each of the following series. You may use only one variable in each problem.
   (a) 0, 5, 10, 15, 20, 25, ?, ?
   (b) 0, 2, 4, 6, 8, 10, ?, ?
   (c) 1, 2, 4, 8, 16, 32, ?, ?
9. A Fibonacci series begins as: 0, 1, 1, 2, 3, 5, 8, 13, 21, …. Calculate and print the next three numbers in the series. You can use only three variables, fib1, fib2, and fib3.
10. Read a number in the range of 0 to 32767 and then print the individual digits of the number on a line with three spaces between the digits. The first line is to start with the leftmost digit and print all 5 digits, the second line is to start with the second digit from left and print 4 digits, and so on.
11. Find the largest of 3 Numbers.
12. Find ASCII Value of a Character.
13. Swap Two Numbers.
14. Check a given number is even or odd.
15. Reverse a 3-digit number