Intro to Programming in C – Small Program 4

Assignment purpose: conditions, loops and pointers

**Submit source code (smallProg4.c) through Canvas

- One source code file (unformatted text) will be submitted
- The file name must match the assignment
- The code should be tested and run on a Microsoft compiler before it is uploaded onto Canvas
- The code must be submitted on time in order to receive credit (11:59 PM on the due date)
- Late submissions will not be accepted or graded
- **All programming assignments are individual work, sharing code is considered cheating**

small program 4 - (smallProg4.c) description:

There are 2 Parts to this assignment:

PART 1:
Create a program that asks the user to enter a number from 1 to 9
Get the number from the user (For example if the user enters a 5, each loop below will repeat 5 times)

Print the statement "FAU Owls - Hoot Hoot" the number of times entered by the user using a **for loop.**
Print the statement "Programming is awesome" the same number of times using a **do/while loop.**
Print the statement "Florida beaches are beautiful" the same number of times using a **while loop.**

 Note: You will be graded on whether or not you used the correct loop as described above, not just on output

PART 2: calculates the remainder and the product of two integers with one user-defined functions:

//takes two integer arguments and two integer pointer arguments
//1. calculate the product and stores the result in prodPtr
//2. calculate the remainder of num1 % num2 and store the result in remPtr
//if num2 is 0 do not calculate the remainder and the value at remPtr will be 0
void CalculateBoth(int num1, int num2, int*prodPtr, int *remPtr);

Call the CalculateBoth function from main.
Print the results (value at remPtr and value at prodPtr) inside the CalculateBoth function

Also, print the results again in the main function after the function has been called