**Homework03 ECE 2310**

1. Write a C# console application that computes the area of a circle, rectangle, and cylinder.

Display a menu showing the three options. Allow users to input which figure

they want to see calculated. Based on the value inputted, prompt for appropriate

dimensions and perform the calculations and display the result accordingly (Round the result to 3 decimal places).

2. Write a C# console application that reads a student’s grade and displays the letter grade. It should validate the input before processing it, i.e. if the input is negative or more than 100, output an error message and stop the program. If the input is not a number, output an error message and stop the program, too. There is one requirement: to determine the letter grade , use “ switch…case “

100>=grade>=90 A

90>grade>=80 B

80>grade>=70 C

70>grade>=60 D

Grade<60 F

3. Design a C# Windows Forms Application that calculates the amount of profit an organization receives based on its sales. The more sales documented, the larger the profit ratio. Allow the user to input the total sales figure for the organization. Compute the profit based on

the following table. Display the sales, the profit ratio and profit. Your solution should validate the entered sales information.

$0 - $1000: 3%

$1000.01\_$5000: 3.5%

$5000.01\_$10000: 4%

over $10000: 4.5%

