



## Assignment 5

Solve the following questions (midterm exam):

1. Write a program that prompts the user to enter two integers, then displays the larger number followed by "is larger than" followed by the smaller number if applicable; otherwise, displays "The two numbers are equal".

**Sample Output:**

```
Enter two integers: 7 30
30 is larger than 7
```

2. Write a program that prompts the user to enter his/her weight ( $w$ ) in kilograms and height ( $h$ ) in meters, then displays his/her *Body Mass Index (BMI)* and the corresponding category ( $C$ ).

$$BMI = \frac{w}{h^2}, C = \begin{cases} \text{Underweight} & , & BMI < 18.5 \\ \text{Normal} & , & 18.5 \leq BMI < 25 \\ \text{Overweight} & , & 25 \leq BMI < 30 \\ \text{Obese} & , & 30 \leq BMI \end{cases}$$

**Sample Output:**

```
Enter your weight in kilogram: 85
Enter your height in meters : 1.85
Your Body Mass Index = 24.835646 (Normal)
```

3. Write a program that prompts the user to enter the size of the side of a checkerboard, then displays a checkerboard of the given size.

**Sample Output:**

```
Enter the checkerboard size: 4
■ ■
■ ■
■ ■
■ ■
```

**Submission Deadline:**

Friday, April 15, 2016

**Submission URL:**

<https://goo.gl/DtYiJO>

**Accepted file format:**

Microsoft Word new format (.docx)