Assignment 3 Write a program to do the number conversion and format your output by following the direction below. This assignment is due by 9/8/2017

**Part1** Display the output by following the format below:

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \*

\* Your Name Here Your I.D. Number Here

\* \*

\* AP Computer Science Java Period ?

\* \*

\* Starting Date: Due Date:

\* \*

\* This program will identify whose program listing it is through the

\* use of comments. It will also identify who the output belongs to

\* through the use of println statements.

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Part1 requirement: Identify whom the program listing and program output belongs to. Use comments at the beginning of the program and use println statements to display your output. The comments will be at the very beginning of your program, before any import and public class statements. Include your Name, School I.D. Number, Program Number, Course Name, AP Computer Science, Period Number, Starting Date, Due Date, and a description of the program in the comment section.

**Part2** write a program to convert a binary number to a decimal number.

**Part3** Write a program to convert a decimal number to a binary number.

Part2 and Part3 requirement, Format your comments to follow the example shown below:

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \* NumberConvertSystem

\* copyright 2017-2018

\* programmer name class P1 or 2

\*

\* Purpose of this program …. ……

\* \*

\* Input: ……..

\* \*

\* Parameters parse in:

\* \*

\* Output:

\* \*

\* value returned

\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

If you create sub functions in your program, also include a comment section to describe the purpose of your function, input parameters and output generated. Example like:

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* \* Function name

\*

\* \* Purpose: …. ……

\* \*

\* Input: ……..

\* \*

\* Parameters parse in:

\* \*

\* Output:

\* \* any return data

\*

\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

Use the comment section above as a guideline. Make sure that your source code looks nice and readable using indentation and blank lines. Format your output to look nice, be readable.

Remember that class names start with a capital letter and must have the same name as the name of your file (without the .java). For this program, the class name should be: NumberConvertSystem, and the filename should be: NumberConvertSystem.java.

**Note**: Use this program as a “template” for all future programs. Include this style of comments and output for every program throughout the class.

When you are finished with your program, have tested it thoroughly to make sure that your calculations are correct, and are sure that you don’t need to make any changes, and then save your program in the “USB” drive, Hand in your USB drive to me.

If you need more to do, you can write another program by converting Hex to decimal or decimal to hex