**COMP 1800 – Fall 2016**

**Classwork 2: More Number Bases**

**(16 points)**

Number of People: Teams of up to 2. If you work with a teammate, only one submission is needed. Be sure to put both of your names on the paper. Feel free to ask me or Swaroop for help!

Due: Sept. 1, by the end of class

Submission: Turn in this assignment as a hard copy before the end of class; no electronic submission is necessary.

Grader: TA, Swaroop Goli ([ssgoli@memphis.edu](mailto:ssgoli@memphis.edu)). Questions about grading? Please contact him first!

Please show all work on these problems! Answers without work will be given minimal or no credit.

1. **(8 pts)** Convert (B47)16 into base 10. Also check your work by converting your base 10 result back into base 16. Show all work in both directions!
2. **(4 pts)** Using the shortcut we discussed, convert (101 0001 0100 1101)2 into base 16.
3. **(4 pts)** Using the shortcut we discussed, convert (EA6B)16 into base 2.