**CS2100 Computer Organization**

**2022/23 Semester II**

**Assignment 1**

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| **Tutorial Group:** | 03 |
| **Student ID (AxxxxxxxY):** | A0255555X |
| **Name:** | Moon Ji Hoon |

**Instructions:** Rename this file to AxxxxxxxY and save as PDF before submission. Marks will be deducted if you fail to do this.

**Question 1 (10 MARKS)**

1. 0xC1985C00
2. 0.46289062510
3. i) 511.98437510

ii) 0.01562510

iii) -51210

iv) 0xCFBA

v) -193.0937510

vi) 0.0062510

**Question 2 (10 MARKS)**

1. i) 3557

ii) 30145

iii) 921710

1. The negation of 𝑥 is 𝐵𝑛 – 𝑥. Then , and after ignoring the overflow, the equation becomes 0.
2. i) 3015

ii) 3527

iii) 11328

1. 9

**Question 3 (10 MARKS)**

Please submit your **q3.c** together with the PDF version of this file (renamed to AxxxxxxxY.pdf where AxxxxxxxY is your student number) in a single ZIP file called AxxxxxxxY.zip.

**Question 4 (10 MARKS)**

1. 4
2. 14
3. 0x2108FFFC
4. 0x00118840
5. 0x15400002
6. 0x0810000D

**PDF: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ / 30**

**Q3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ / 10**

**Penalties \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ / -2**

**Total: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ / 40**