Assignment 3

COEN210 Spring 2022

Question 1

1.1 Provide the instruction type and assembly language instruction for the following binary value

0000000000100001000000010110011

1.2 Provide the instruction type and hex and binary representation of the following instruction:

sw x5, 32(x30)

Question 2

Follow the *factorial()* example in lecture, implement *sum()* function in RISC-C assembly instructions.

For example, sum(5) will calculate 1 + 2 + 3 + 4 + 5

Use online RISC-V simulator to run your program

Some of the online simulators are:

- 1. https://www.cs.cornell.edu/courses/cs3410/2019sp/riscv/interpreter/
- 2. https://riscvasm.lucasteske.dev/
- 3. https://ascslab.org/research/briscv/simulator/simulator.html

Submit code and running screen shot.