

CSE3401 Computer Organization

Fall 2024 – HW#1

Due: 21.10.2024

1. **DO NOT COPY/PASTE SOLUTIONS FROM YOUR FRIEND'S HW. WE WILL IGNORE COPY PASTE HOMEWORKS.**
2. **FORMAT OF THE SUBMISSION SHOULD BE AS FOLLOWING:
"STUDENTNUMBER1_STUDENTNUMBER2.PDF" AND SUBMIT IT TO BLACKBOARD**
3. **PLEASE ALSO MENTION TEAM MEMBERS INFORMATION IN THE PDF FILE.**
4. **IF YOU DO NOT FOLLOW THE SUBMISSION FORMAT %10 OF PENALTY WILL BE APPLIED.**

QUESTIONS

Q1) B. ASSUME YOU HAVE \$t0=[0xCAFEBAFE], HOW CAN YOU CHANGE IT TO

[0xBABACAF0]

and

[0x03CA1E00]

Using only logic and shift operations.

Q2) WHAT MIPS INSTRUCTION IS REPRESENTED BY THE FOLLOWING HEX

0x20090022

Please identify every field of the related instruction format.

Q3) Convert the following java code into MIPS. Write comment for every line of your MIPS instructions.

```
int i = 32;  
int j = -3;  
while (i>2)  
    i--;  
    j++;
```