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**COS10004 - Computer Systems – Lab 8 Submission**

## Question 8

## Question 8.1

## Because 8-bit of 32-bit number is for immediate value, then the MOV will work with 24 bit remaining.

## 4-bit is for rotating (ROR)

## 20-bit is for presenting the instruction

## In total, we have 32 bits but MOV only works with 24 bits

## Question 8.2

## We can handle this problem by split the HEX number into multiple parts then use the operator *orr* to add them up to the given number.

## Question 8.3

## My student ID is 103487596, so the last 6 digits of my student ID is 487596.

## Next, I converted that number to HEXA, which is 0x770AC. Now I decided to split the number into 3 parts:

## Code in my file OK2.asm

## mov r2,$70000

## orr r2,$07000

## orr r2,$000AC