CTT10009 – COMPUTER SYSTEM

EXERCISES

EX3: X86 assembly

I. Information:

Code:	EX3
Deadline:	
Form of submission:	Individual
Tool to submit:	Moodle
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II. Outcome

After this exercise you will reach to:

- G4.3: Be able to understand and use assembly language to program in X86 bits platform

III. Describe

A. Please read the following MIPS code and named the meanning of this code (describe in C code/ pseudocode):

```
.model small                          input:
.stack 100h                           mov AH,1h
.data                                 int 21h
c  DB ?
.code                                 mov c,AL
mov AX,@data
mov DS,AX                             cmp c,41h
                                      jb input
                                      cmp c,5Ah
                                      ja input
```

B. Convert these C code to X86 code:

```
1. f = g + B[8]              //f→$t0, g→$t1, B→$s0
2. if (a < b)                // a→$s0, b→$s1
   printf("%d",1);
   else
   printf("%d",0);
```

IV. Submission requirement:

1. Please submit to moodle site with the name **Student_ID.pdf**