



# Princess Sumaya University for Technology Computer Engineering Dept.

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22342 Computer Organization & Assembly Language

Thu 8 Mar 2012

## Quiz 1 (5 Minutes)

Student Name:

ID:

Student Serial Number (1 – 34):

Question: All values are in hexadecimal.

(2 Points) Determine the values of indicated registers after executing the following program:

```
MOV    DI, [0009]
MOV    CX, 0003
MOV    AL, 04
CLD
REPNE SCASB
```

Solution:

AX = 00 04  
CX = 00 00  
SI = 00 00  
DI = 00 00

AX 0/4  
BX 0  
CX 03  
DX 0

SI 0  
DI 04  
BP 0

CS 4000  
DS 4000  
ES 4000  
SS 4000

Memory	
40000	01
40001	03
40002	05
40003	07
40004	09
40005	10
40006	11
40007	12
40008	13
40009	14
4000A	15
4000B	02
4000C	04
4000D	06
4000E	08
4000F	0A
40010	11
40011	12
40012	13
40013	14
40014	15
40015	21
40016	22
40017	23
40018	24
40019	25
4001A	31
4001B	32
4001C	33
4001D	34
4001E	35
4001F	36

DI 9  
CX 3  
AL 4

CX 3  
AL 4

2

CX 3  
AL 4

DI

F  
DI  
10