

Microprocessor Systems and Interfacing (CPE342)
Bachelors of Science in Computer Engineering

Quiz No. TWO

FA22-BCE-B

Name	
Registration No.	
Date	

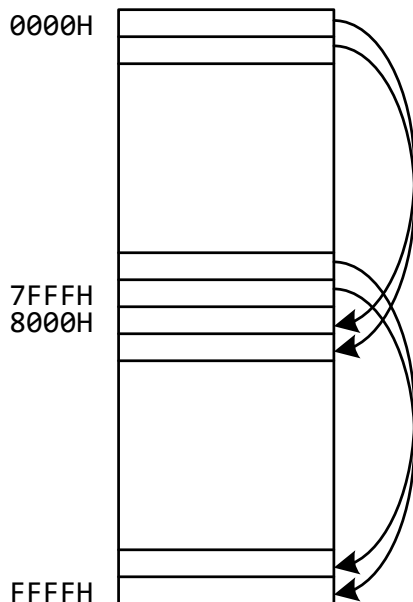
Total Marks: 10

Time: 15 Minutes

Problem: Consider the situation where you have to copy the lower half (from 0000H to 7FFFH) of a data segment starting from CDEFH to the upper half of the same segment (8000H to FFFFH), as shown in figure below. Given below is an incomplete code that performs this task.

Determine the missing pieces of the code and write the complete code in the box below .

Solution:



START :

```
XXXXXXXXXXXXX
MOV  XXXX, AX
XOR  SI, XXXXX
MOV  DI, XXXXX
MOV  XXX, XXXXX
```

MAKE_COPY :

```
MOV  DL, [XXXX]
XXXXXXXXXXXXX
INC  XXX
XXX  DI
LOOP MAKE_COPY
END
```

START :

MOV AX, 0CDEFH

MOV DS, AX

XOR SI, SI

MOV DI, 32768

MOV CX, 32768

MAKE_COPY :

MOV DL, [SI]

MOV [DI], DL

INC SI

INC DI

LOOP MAKE_COPY

END