

~~Q~~

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MATIC No: 17/201902/055  
COURSE code/title: COE306/Assembly language

### Question 1

a) It would be a good idea because the addresses coded in the instructions would have to be updated whenever new variables were inserted before existing ones.

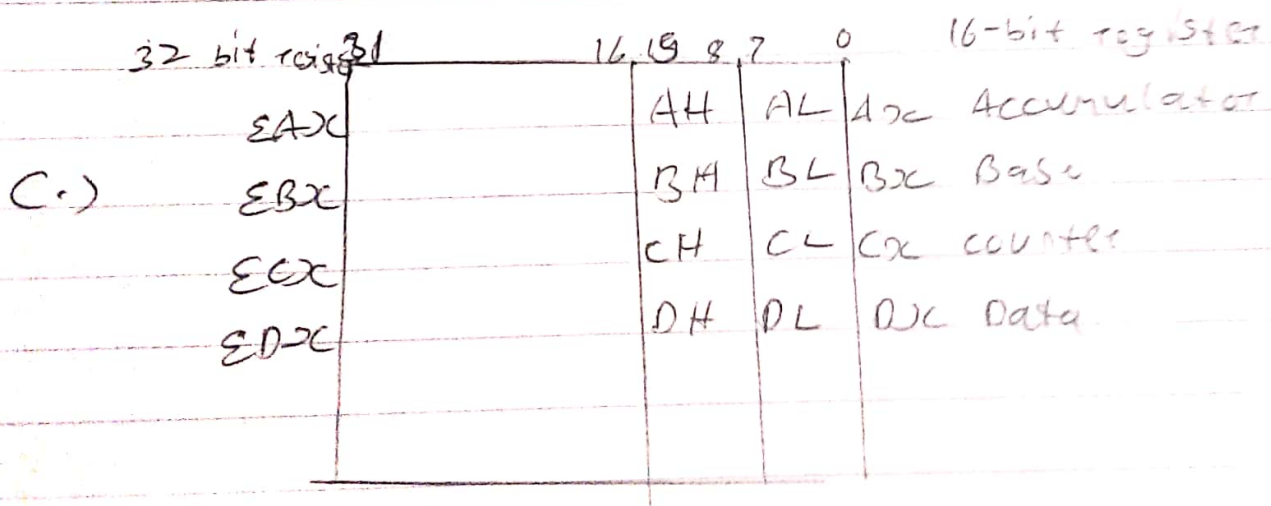
- b.)
- i) OBJ. Object files.
  - ii) LST. Listing files.

~~Ques~~

## Question 2

a.) portability is a characteristic attributed to a program if it can be used in an operating system other than the one in which it was created, it is the task of doing any work necessary to make a program run in a new environment

b.)



### Question 3

a) Each segment is used to contain a specific type of data, one segment is used to contain instruction codes, another segment stores the data elements, and a third segment keeps the program stack

i) Value 1 Byte : value is the name given to the variable  
Byte is the directive  
+++ defines the data  
0Dh is the hexadecimal

ii) Value 2 Dword : ? This value name is Value 2  
Dword is the directive  
and a question mark means a value would be assigned to it later

b)

MOV AX, 47104 : Move 47104 to the eax register

ADD EAX, 1270 : Add 1270 to the eax register

MOV DS, ADC :

QUESTION  
TITLE Add and Subtract

- ; program Assignment 1 - Subtracting three integers
- ; using the addsub program

QUESTION 4

~~QUESTION 4~~

• CODE

main PROC

mov eax, 90000h

sub eax, 40000h

sub eax, 20000h

call DumpRegs

exit

; EAX = 10000h

; EAX = 30000h

; EAX = 3000h

; display regis