**Name: Md. Rifat Ahmed**

**ID: 1931725042**

**Answer to the Question No: 1**

1. ADD DS, AL is Invalid because DS is the data segment register and it can’t be used this way.
2. MOV VAR1, VAR2 is also Invalid cause we know MOV doesn’t work between memory to memory
3. MOV VAR2, CL is Valid
4. INC BX, 1 is invalid because the syntax to use INC is: INC Register
5. LEA AX, ARRAY is Valid

**Answer to the Question No: 2**

include 'emu8086.inc'

.model small

.stack 100h

.data

.code

proc main

mov ax, 66 ;Number that we'll CHECK

mov bx, 7

div bx

cmp dx, 0

jz Divisible

NotDivisible:

print 'Not Divisible by 7'

jmp EXIT

Divisible:

print 'Divisible by 7'

EXIT:

mov ah, 04ch

int 21h

main endp

end main

**Answer to the Question No: 3**

divide proc

mov ax, 65535

mov bl, 0Ah

div bl

call print\_num\_uns

RET

divide endp