**Assignment #04**

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**Date: 04/11/18.**

**Question #01**

Include Irvine32.inc

.data

v1 sdword ?

v2 sdword ?

v3 sdword ?

.code

main proc

call readint

mov eax,v1

call readint

mov ebx,v2

imul eax

call readint

mov ecx,v3

imul ebx

call writeint

call crlf

exit

main endp

end main

**Question #02**

Include Irvine32.inc

.data

v1 sdword ?

v2 sdword ?

v3 sdword ?

.code

main proc

call readint

mov eax,v1

call readint

mov ebx,v2

imul eax

call readint

mov ecx,v3

imul ebx

call writeint

call crlf

exit

main endp

end main

**Question #03**

include irvine32.inc

.data

count byte ?

dad word ?

ab word ?

mi word 10

mo word 2

sume word ?

.code

main proc

xor eax,eax

call readint

mov ecx,5

L1:

xor edx,edx

div mi

add ab,dx

mov dad,ax

mov ax,dx

call writedec

call crlf

xor edx,edx

div mo

cmp dx,0

jne lq

add count,1

jmp lj

lq:

add sume,dx

lj:

mov ax,dad

LOOP L1

call crlf

xor eax,eax

mov al,count

call writedec

call crlf

xor eax,eax

mov ax,sume

call writedec

call crlf

exit

main endp

end main

**Question #04**

INCLUDE IRVINE32.INC

.DATA

ARRAY BYTE 5 DUP (?)

.CODE

MAIN PROC

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,30H

MOV NUM,AL

CMP AL,1

JLE LBL2

MOV AH,00

CMP AL,3

JLE LBL3

MOV AH,00

MOV CL,2

DIV CL

MOV CL,AL

LBL1:

MOV AH,00

MOV AL,NUM

DIV CL

CMP AH,00

JZ LBL2

DEC CL

CMP CL,1

JNE LBL1

JMP LBL3

LBL2:

MOV AH,9

LEA DX,MSG2

INT 21H

JMP EXIT

LBL3:

MOV AH,9

LEA DX,MSG3

INT 21H

EXIT:

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

**Question #05**

include irvine32.inc

.data

var1 DT 0AABBBBCCCCDDDDEEFFFFh

var2 DT 0AABBBBCCCCDDDDEEFFFFh

variable3 REAL10 ?

.CODE

MAIN PROC

fld var1

fld var2

fadd

FSTP variable3

xor eax,eax

mov eax,dword ptr variable3

call writehex

xor eax,eax

mov eax,dword ptr variable3+4

call writehex

xor eax,eax

mov ax,word ptr variable3+8

call writehex

call crlf

exit

MAIN ENDP

END MAIN