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**K17-3922**

**Section: E**

**Coal Lab 6**

**Q1:**

INCLUDE Irvine32.inc

.data

.code

main PROC

mov dh,1

mov dl,1

mov ecx,20

L1:

Call Gotoxy

mov eax,5

Call Delay

Call random32

Call WriteDec

inc dh

add dl,2

Loop L1

Call Crlf

exit

main ENDP

END main

**Q2:**

Include Irvine32.inc

.data

.code

main PROC

mov EAX,0

Call ReadInt

Call WriteInt

Call Crlf

Call WriteHex

Call Crlf

Call WriteBin

Call Crlf

Call DumpRegs

Call WaitMsg

exit

main ENDP

END main

**Q3:**

Include Irvine32.inc

.data

nam Byte "Name:",0

emp Byte "Employee Id:",0

year Byte "Year of birth",0

sal Byte "Salary:",0

salary dword ?

tax dword ?

caption BYTE "Tax", 0

HelloMsg BYTE "Your Tax =", 0

.code

main PROC

mov EDX, OFFSET nam

Call WriteString

mov ECX, 12

Call ReadString

mov EDX,OFFSET emp

Call WriteString

call ReadInt

mov EDX,offset year

Call WriteString

Call ReadInt

mov EDX,offset sal

Call WriteString

Call ReadInt

mov salary,EAX

cmp salary,50000

JG L1

L1:

mov EDX,0

mov EBX,12

div EBX

mov EBX,2

mov EDX,0

div EBX

imul EAX,12

mov tax, EAX

mov EBX, OFFSET caption

mov EDX, OFFSET HelloMsg

call MsgBox

MOV EDX,offset HelloMsg

Call WriteString

Call WriteInt

Cal Crlf

call waitmsg

exit

main ENDP

END main

**Q4:**

Include Irvine32.inc

.data

filehandle DWORD ?

filename BYTE "Fibo.txt", 0

bufferSize = 22

buffer Byte "1 1 2 3 5 8 13 21",0

.code

main PROC

mov EDX, offset filename

call CreateOutputFile

mov filehandle, EAX

mov EAX, filehandle

mov EDX, OFFSET buffer

mov ECX, bufferSize

call WriteToFile

Call CloseFile

Call DumpRegs

exit

main ENDP

END main

**Q5:**

Include Irvine32.inc

.data

tmp dword ?

.code

main PROC

mov AL,'\*'

mov DH,1

mov DL,5

mov EBX,1

mov ECX,5

L1:

mov tmp,ECX

mov ECX,EBX

Call Gotoxy

L2:

Call WriteChar

Loop L2

mov ECX,tmp

inc EBX

inc DH

dec DL

Loop L1

Call Crlf

Call WaitMsg

exit

main ENDP

END main