### **Q1:**

INCLUDE Irvine32.inc

.data

msg1 BYTE "Message 1", 0

msg2 BYTE "Message 2", 0

msg3 BYTE "Message 3", 0

.code

main PROC

mov EDX, OFFSET msg1

call WriteString

call Crlf

JMP SkipMessage2

mov EDX, OFFSET msg2

call WriteString

call Crlf

SkipMessage2:

mov EDX, OFFSET msg3

call WriteString

call Crlf

call WaitMsg

call ExitProcess

main ENDP

END main

### **Q2:**

INCLUDE Irvine32.inc

.code

main PROC

mov ECX, 10

L1:

mov EAX, 11

sub EAX, ECX

call WriteInt

call Crlf

LOOP L1

call WaitMsg

call ExitProcess

main ENDP

END main

### **Q3:**

INCLUDE Irvine32.inc

.data

starChar BYTE '\*', 0

rowMax DWORD 5

.code

main PROC

mov EBP, 1

mov ECX, rowMax

OuterLoop:

PUSH ECX

PUSH EBP

mov ECX, EBP

InnerLoop:

mov AL, starChar

call WriteChar

LOOP InnerLoop

POP EBP

POP ECX

call Crlf

INC EBP

LOOP OuterLoop

call WaitMsg

call ExitProcess

main ENDP

END main

### **Q4:**

INCLUDE Irvine32.inc

.data

msgWelcome BYTE "Welcome to COAL Lab 06", 0

msgEnd BYTE "Program Ended", 0

.code

main PROC

call Clrscr

mov EDX, OFFSET msgWelcome

call WriteString

call Crlf

mov EAX, 2000

call Delay

call Crlf

mov EDX, OFFSET msgEnd

call WriteString

call Crlf

call WaitMsg

call ExitProcess

main ENDP

END main