Question 01:

1. The following program displays the largest of three variables. The variables are double-digit variables. The three variables num1, num2 and num3 have values 47, 22 and 31.

Code:

INCLUDE Irvine32.inc

```
.data
 num1 DWORD 47
 num2 DWORD 22
 num3 DWORD 31
 largest DWORD?
.code
main PROC
 mov eax, num1
 mov ebx, num2
 cmp eax, ebx
 jge check_num3
 mov eax, ebx
check_num3:
 mov ecx, num3
 cmp eax, ecx
 jge display_result
 mov eax, ecx
display_result:
 mov largest, eax
 mov edx, largest
 call WriteDec
 call Crlf
 exit
main ENDP
END main
```

Output:

```
Microsoft Visual Str
47
EC:\Users\LENOVO\
Press any key to
```

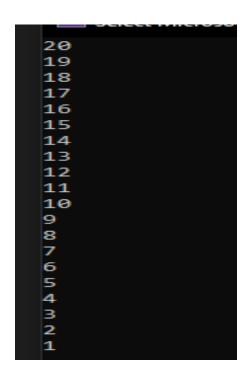
Question 02:

Write a program in assembly language to print the reverse counting from 20 to 1.

Code:

INCLUDE Irvine32.inc
.data
.code
main proc
mov eax,20
label1:
mov edx, eax
call writedec
call crlf
dec eax
cmp eax,0
jg label1
exit
main endp
end main

Output:



Question 03:

Write a program in assembly language to print the counting from 1 to 5 but 3 is not print in the counting.

Code:

INCLUDE Irvine32.inc

```
.code
main PROC
mov eax, 1

counting:
cmp eax, 3
je skip_three
mov edx, eax
call WriteDec
call Crlf
```

```
skip_three:
inc eax
cmp eax, 6
jl counting
exit
main ENDP
END main
```

Output:

