Coal lab 06

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SID: 11067

Question 1

CODE:

```
INCLUDE Irvine32.inc

.data
;Syed Muzzamil Waseem 11067
msg1 byte "Enter 10 numbers: ",0
msg2 byte "Sum of 10 numbers is: ",0,0dh,0ah
var1 dword 10 dup(?)
.code
main PROC
mov ecx, 0
mov edx, offset msg1
call writestring
call crlf
.while ecx<10
call readint
mov var1[ecx*4], eax
inc ecx
.endw
mov ecx, 0
.while ecx<9
add eax, var1[ecx*4]
inc ecx
.endw
call crlf
mov edx, offset msg2
call writestring
call writedec
call crlf
exit
main ENDP
END main
```

```
Enter 10 numbers:
2
3
4
5
6
7
8
9
1
0       Rectangular Snip

Sum of 10 numbers is: 45
Press any key to continue . . .
```
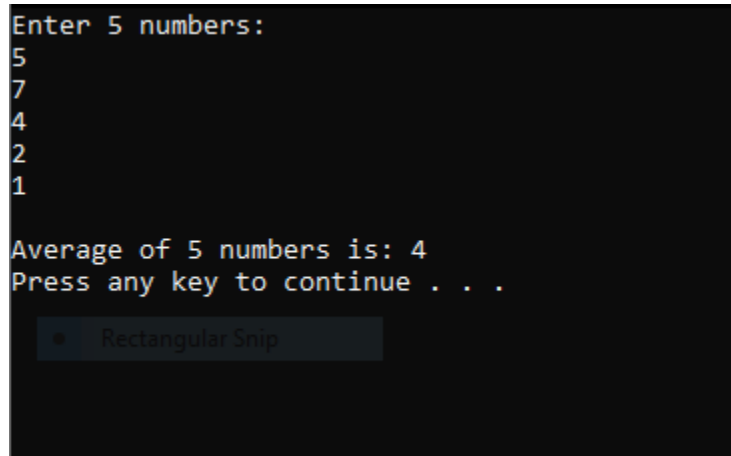
Question 2

CODE:

```
INCLUDE Irvine32.inc
.data
;Syed Muzzamil Waseem 11067
msg1 byte "Enter 5 numbers: ",0,0dh,0ah
msg2 byte "Average of 5 numbers is: ",0,0dh,0ah
var1 dword 5 dup(?)
.code
main PROC
mov ecx, 0
mov edx, offset msg1
call writestring
call crlf
.while ecx<5
call readint
mov var1[ecx*4], eax
inc ecx
.endw
mov ecx, 0
.while ecx<5
add eax, var1[ecx*4]
inc ecx
.endw
call crlf
mov edx, offset msg2
call writestring
mov edx, 0
mov ebx, 5
```

```
div ebx
call writedec
call crlf
exit
main ENDP
END main
```

```
Enter 5 numbers:
5
7
4
2
1

Average of 5 numbers is: 4
Press any key to continue . . .
    ●  Rectangular Snip
```
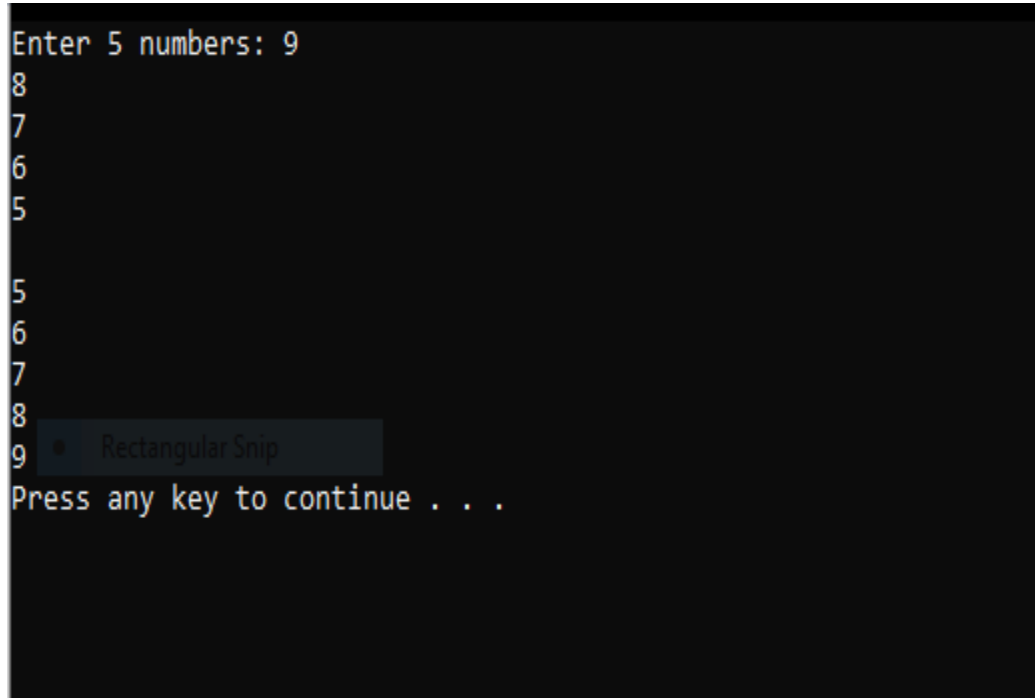
Question 3

CODE:

```
INCLUDE Irvine32.inc

.data
;Syed Muzzamil Waseem 11067
array BYTE 50 DUP (0)
myMsg BYTE "Enter 5 numbers: ",0
.code
main PROC
mov edx, offset myMsg
call writestring
mov ecx,0
.while (ecx<5)
call readdec
mov array[ecx],al
inc ecx
.endw
call crlf
mov ecx,4
.while(ecx<5)
mov al,array[ecx]
call writedec
```

```
call crlf
dec ecx
.endw
exit
main ENDP
END main
```

```
Enter 5 numbers: 9
8
7
6
5

5
6
7
8
9    Rectangular Snip
Press any key to continue . . .
```

Question 4

CODE:

```
INCLUDE Irvine32.inc
.data
;Syed Muzzamil Waseem 11067
myMsg BYTE "Enter 5 values: ",0
List BYTE 11,7,89,4,0,10
ListSize = ($ - List)
.code
main PROC
mov eax,ListSize
call writeint
call crlf
exit
main ENDP
END main
```

```
+6
Press any key to continue . . .
```