National University of Computer and Emerging Sciences



Lab 10

Coal

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| Semester | Fall 2020 |

Task 1

# **Source Code**

*; Author :Muhammad Zain*

; Program Name :Multpilaction by shifting and rotation

; Program No :Task 1

; Lab number :lab 10

; Date 20-12-2020

include Irvine32.inc

.data

input\_msg byte "Please input a 4-Digit Hex Number ",0

input word ?

output\_1 byte "Before Rotation = ",0

output\_2 byte "After Rotation = ",0

result db ?

.code

main proc

mov eax, white + (lightred \* 16)

call SetTextColor

call crlf

mov edx ,offset input\_msg

call writestring

call readhex

mov input,ax

mov edx ,offset output\_1

call writestring

mov ebx,2 ;to remove 0000

call writeHexB

mov bx,ax

mov ecx,16 ;word ==16 bits

l1:

rcr ax,1 ;pahlay move kray ga right then carry store kray ga

rcl bx,1 ; phlay move kray ga left phir carry store kray ga

loop l1

call crlf

mov edx ,offset output\_2

call writestring

mov ax,bx

mov ebx,2 ;to remove 0000

call writeHexb

exit

main endp

end main

# **Snip:**

