

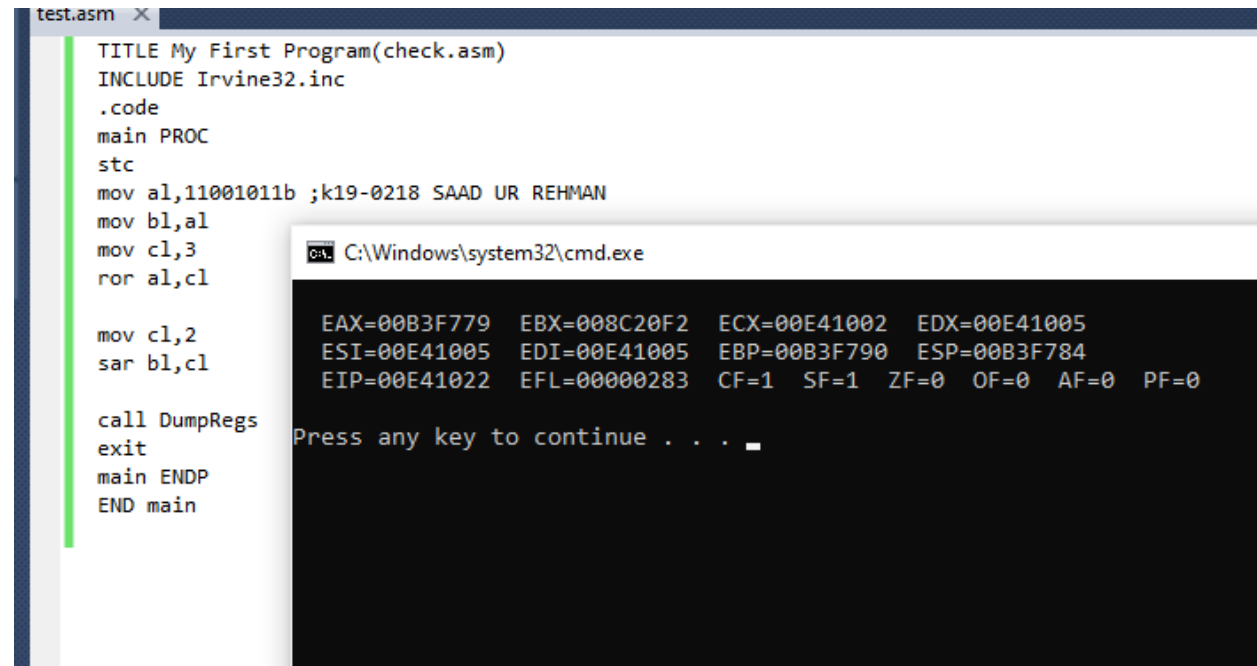
SAAD UR REHMAN

19k-0218

SEC C

LAB TASK 8

Q4 :



The image shows a screenshot of an assembly program named 'test.asm' and its execution output in a command prompt window.

Assembly Program (test.asm):

```
TITLE My First Program(check.asm)
INCLUDE Irvine32.inc
.code
main PROC
    stc
    mov al,11001011b ;k19-0218 SAAD UR REHMAN
    mov bl,al
    mov cl,3
    ror al,cl

    mov cl,2
    sar bl,cl

    call DumpRegs
    exit
main ENDP
END main
```

Command Prompt Output (C:\Windows\system32\cmd.exe):

```
EAX=00B3F779  EBX=008C20F2  ECX=00E41002  EDX=00E41005
ESI=00E41005  EDI=00E41005  EBP=00B3F790  ESP=00B3F784
EIP=00E41022  EFL=00000283  CF=1  SF=1  ZF=0  OF=0  AF=0  PF=0

Press any key to continue . . .
```

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LAB 8 :-

K190218 Saad

Q41

AL = 11001011b & CF = 1 ,

• ROR AL, CL ; CL = 3

ROR AL, 1	11100101	CF = 1
ROR AL, 1	11110010	CF = 1
ROR AL, 1	01111001	CF = 0

• SAR AL, CL ; CL = 2.

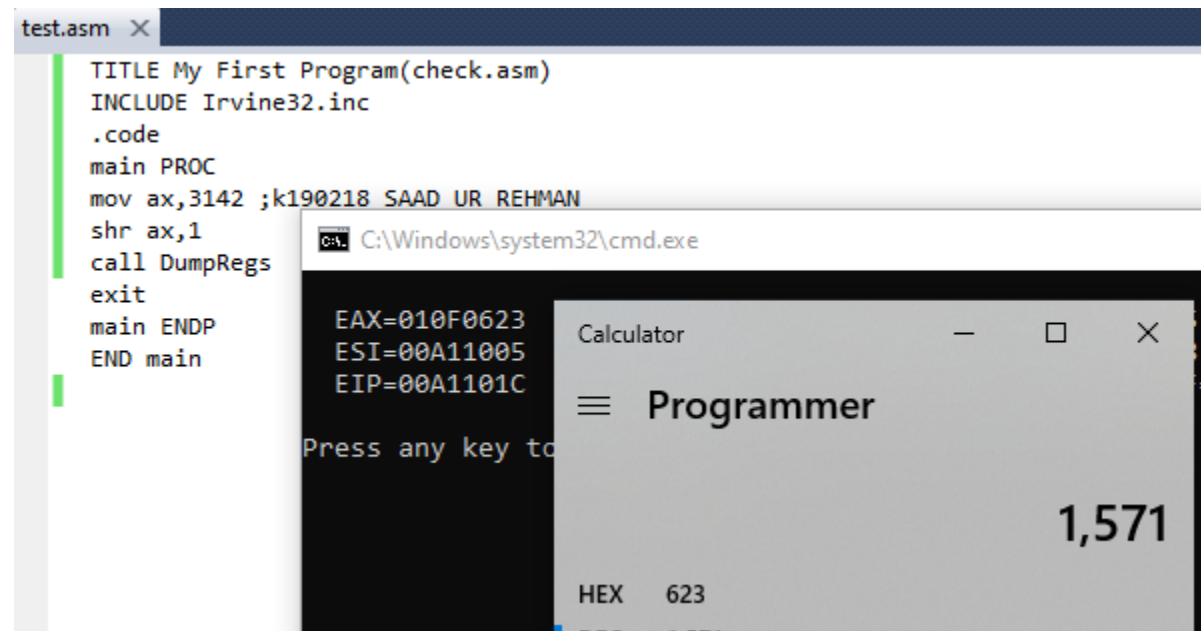
11100101	CF = 1
11110010	CF = 1

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Q3:



The screenshot shows a Windows environment with three overlapping windows. The top window is a text editor titled 'test.asm' containing assembly code. The middle window is a command prompt titled 'C:\Windows\system32\cmd.exe' showing the output of the assembly program. The bottom window is a Windows Calculator titled 'Calculator' with the 'Programmer' tab selected, displaying the decimal value 1,571 and the hexadecimal value 623.

```
test.asm X
TITLE My First Program(check.asm)
INCLUDE Irvine32.inc
.code
main PROC
mov ax,3142 ;k190218 SAAD UR REHMAN
shr ax,1
call DumpRegs
exit
main ENDP
END main
```

```
C:\Windows\system32\cmd.exe
EAX=010F0623
ESI=00A11005
EIP=00A1101C
Press any key to continue
```

Calculator
Programmer
1,571
HEX 623