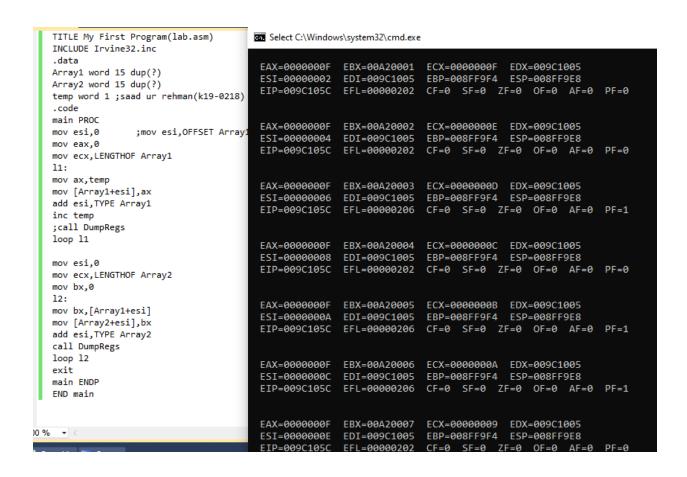
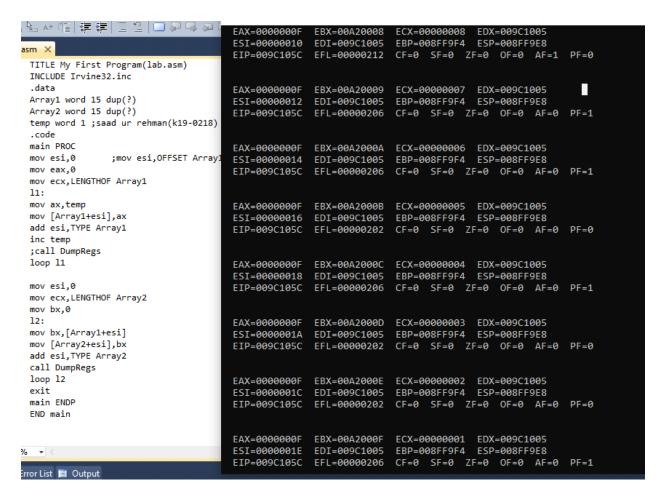
LAB TASK 7

Q1. Use loop instruction to display decimal value till 15 and store this value in another array of size 15 and then display the stored array results in data register.



SAAD UR REHMAN 19k-0218

SEC: C



Q2. Using a loop move incremental values in eax.

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TITLE MY FIRST PROGRAM(check.asm) INCLUDE Irvine32.inc C:\Windows\system32\cmd.exe .code main PROC mov eax,0 EAX=00000001 EBX=01103000 ECX=00000005 EDX=00A21005 mov ecx,5 ESI=00A21005 EDI=00A21005 EBP=012FFC1C ESP=012FFC10 11:; k19-0218 Saad ur rehman EIP=00A21020 EFL=00000202 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=0 inc eax call DumpRegs EAX=00000002 EBX=01103000 ECX=00000004 EDX=00A21005 loop 11 exit ESI=00A21005 EDI=00A21005 EBP=012FFC1C ESP=012FFC10 main ENDP EIP=00A21020 EFL=00000202 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=0 END main EAX=00000003 EBX=01103000 ECX=00000003 EDX=00A21005 ESI=00A21005 EDI=00A21005 EBP=012FFC1C ESP=012FFC10 EIP=00A21020 EFL=00000206 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=1 EAX=00000004 EBX=01103000 ECX=00000002 EDX=00A21005 ESI=00A21005 EDI=00A21005 EBP=012FFC1C ESP=012FFC10 EIP=00A21020 EFL=00000202 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=0 EAX=00000005 EBX=01103000 ECX=00000001 EDX=00A21005 ESI=00A21005 EDI=00A21005 EBP=012FFC1C ESP=012FFC10 output from: Build EIP=00A21020 EFL=00000206 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=1 ----- Build started: Project: M Assembling [Inputs]... LINK : C:\Users\saadu\document Mid.vcxproj -> C:\Users\saadu\

Q4 Write a program to calculate the factorial of the program

```
TITLE My First Program(check.asm)
INCLUDE Irvine32.inc
.data
temp WORD 6
.code
main PROC
mov ax, temp
mov bx, temp
dec bx
mov cx,bx
11: ;19k-0218
dec temp
imul ax, temp
loop 11
call DumpRegs
exit
main ENDP
END main
```

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SEC: C

```
EAX=769902D0 EBX=7EFD0005 ECX=00000000 EDX=01091005
ESI=00000000 EDI=00000000 EBP=0014FB0C ESP=0014FB04
EIP=01091038 EFL=00000202 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=0

Press any key to continue . . .
```

Q5. :Use loop instruction to display 100 number in decimal and display them in register.

```
TITLE My First Program(check.asm)
INCLUDE Irvine32.inc
.code
main proc
mov ecx,5
mov ebx,0
                                                      C:\Windows\system32\cmd.exe
L1:
push ecx
mov ecx, 20
                                                       EAX=00CFFB10 EBX=00000064 ECX=00000000 EDX=004A1005 ESI=004A1005 EDI=004A1005 EBP=00CFFAC4 ESP=00CFFAB8 EIP=004A102B EFL=00000202 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=0
L2:
inc ebx;19k-0218 Saad ur Rehman
loop L2
pop ecx
                                                     Press any key to continue . . .
loop L1
call DumpRegs
exit
main ENDP
END main
```