

PROGRAMS

Simple loop using jmp statement

```
include irvine32.inc
.code
main proc

    mov ecx,5
    mov eax,1

    continue:
    call writeint
    call crlf
    dec ecx
    inc eax

    cmp ecx,0
    jne continue

exit
main endp
end main
```

LOOP using Loop keyword

```
include irvine32.inc
.code
main proc

    mov ecx,5          ; loop counter
    mov eax,1

    continue:
    call writeint
    call crlf
    inc eax
    ; loop keyword decrement ecx and jump to continue untill ecx is greater than
0
    loop continue      ; ecx = ecx-1

exit
main endp
end main
```

Nusted loop :-

```
include irvine32.inc
.code
main proc
    mov ecx,5          ;for(i=1; i<=5, i++)
```

```

outerloop:
mov eax,1
    Innerloop:
    call writedec

    inc eax

    cmp eax, ecx
    jbe Innerloop

    call CRLF
    dec ecx
    jg Outerloop

exit
main endp
end main

```

```

12345
1234
123
12
1
C:\Users\PMLS\Downloads\Project32_VS2022\Project32_VS2022\Debug\Project.exe (process 13868) exited with code 0 (0x0).
Press any key to close this window . . .

```

INPUT IN STRING ON CONSOLE

```

include Irvine32.inc
.code
main proc

continue:

    call readchar      ; input character store in al
    cmp al, 0dh        ; compare al with (0dh)  ascii value of enter key when
enter button press the loop will break
    je ex              ; press enter loop break
    call writechar     ; show input character
    jmp continue

ex:
exit
main endp
end main

```

Home Tasks

Q1: Write a program using nusted loop whose output is given below..

```
1
12
123
1234
12345
```

Deadline 11:00pm NOV 13,2024

Q2: Write a program which took number from user and determined either its prime number or not ?

Deadline 9:00 pm Nov 17,2024

Guideline :

Make a word file paste code and output plagiarism will be checked also mention your roll number and name for record.

Send to : ranafaizaan03@gmail.com or Contact number.

How to solve these programs logics were discussed in class moreover you can ask for queries.

Regards