**COAL PRACTICE BEFORE MID**

**Q1.**Adding the odd indexes of an array with even indexes

TITLE My First Program (Text.asm)

INCLUDE Irvine32.inc

.data ;adding odd indexes of ar1 with even of arr2 should give

msg BYTE "Final Sum is ",0

arr1 DWORD 1,2,3,4

arr2 DWORD 10,20,30,40

sum DWORD ?

.code

main PROC

mov eax,0

mov ebx,0

mov ecx,2 ;since only 2 number to be added ;for odd values swap numbers

mov esi,1 ;for pointing to odd of arr1

mov edi,0 ;for pointing to even of arr2

i:

mov eax,arr1[esi\*type arr1] ;making arr point at first index

mov ebx,arr2[edi\*type arr2] ;pointing at 1

add eax,ebx

add esi,2 ;next odd index (1,3,5)

add edi,2 ;next even index (0,2,4)

call writeInt ;to print value in eax

call crlf

add sum,eax

mov eax,sum

loop i

mov edx, offset msg

call writeString

call writeInt ;to print value in eax

exit

main ENDP

END main

