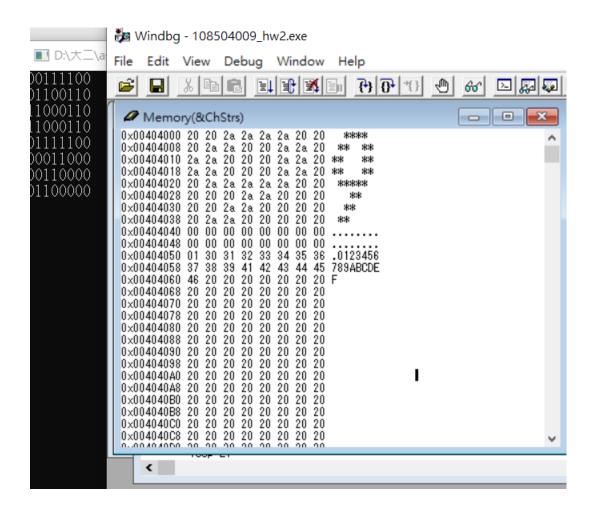
系級: 資電二 學號: 108504009 姓名: 蘇志東

程式碼及解釋:

```
15 .data
        ;some data
        ChStrs BYTE " **** "
17
             BYTE " ** ** "
18
              BYTE "** ** "

BYTE "** ** "
19
20
              BYTE " ***** "
21
              BYTE " **
22
               BYTE " **
23
              BYTE " **
24
25
       BitStrs BYTE 8 dup (?)
26
27 .code
28
29
   change PROC
30
     push eax
                          ; let loop time outside the function can be save ; the loop time for each character in line
31
32
       mov ecx, 8
33 L2:
        cmp ChStrs[esi], 42; check if it is * or not
34
35
       je L4
36 L3:
      mov al, '0'
37
                          ; output a 0 if it is not a *
       call WriteChar
39
        jmp L5
40 L4:
       mov al, '1'
41
                          ; otherwise it will print a 1
42
       call WriteChar
43 L5:
44
        inc esi
                          ; move to next position in the array
45
                  ; do this process 8 times
     loop L2
     pop eax
46
47
                          ; take ecx back
       pop ecx
48
       ret
49 change ENDP
50
51
52 main PROC
                          ; eax = 0
53
       xor eax, eax
                          ; let the position of array to be 0
54
        mov esi, 0
55
       mov ecx, 8
                           ; set loop time 8 times
56 L1:
57
       call change
58
      call Crlf
                          ; jump to next line
59
       loop L1
61
       exit
62 main ENDP
63 END main
```

程式完成截圖:



作業心得:在這次的作業中,我學習到了如何在 CMD 中印出東西,還有如何換行,同時利用了 push 和 pop 指令完成了巢狀迴圈,也極更熟悉的利用陣列。