|  |  |
| --- | --- |
| **NAME: REIMARC G. CORPUZ** | **COURSE & YEAR: BSCPE 3 IE** |
|  |  |
| **CODE** | **SCREENSHOTS** |
| ;SCASB  .model samll  .data  string db 'abcde' ,13,10,'$'  found db 'Found' ,13,10,'$'  notfound db 'Not Found' ,13,10,'$'  .code  mov ax, @data  mov ds, ax  mov es, ax  start:  lea di, string  mov al, 'a'  cld  mov cx, 5  repne scasb  je hi  jne hello  hi:  mov ah, 09h  mov dx, offset found  int 21h  mov ah, 4ch  int 21h      hello:  mov ah, 09h  mov dx, offset notfound  int 21h  mov ah, 4ch  int 21h |  |
| ;SCASB  .model samll  .data  string db 'abcde' ,13,10,'$'  found db 'Found' ,13,10,'$'  notfound db 'Not Found' ,13,10,'$'  .code  mov ax, @data  mov ds, ax  mov es, ax  start:  lea di, string  mov al, 'z'  cld  mov cx, 5  repne scasb  je hi  jne hello  hi:  mov ah, 09h  mov dx, offset found  int 21h  mov ah, 4ch  int 21h      hello:  mov ah, 09h  mov dx, offset notfound  int 21h  mov ah, 4ch  int 21h |  |
| ;CMPSB  .model small  .data  string1 db 'abcde',13,10,'$'  string2 db 'abfde',13,10,'$'  equal db 'Equal',13,10,'$'  notequal db 'Not Equal',13,10,'$'  .code  mov ax,@data  mov ds,ax  mov es,ax  start:  lea si,string1  lea di,string2  cld  mov cx,5  repe cmpsb  je hi  jne hello  hi:  mov ah,09h  mov dx,offset equal  int 21h  mov ah,4ch  int 21h    hello:  mov ah,09h  mov dx,offset notequal  int 21h  mov ah,4ch  int 21h |  |
| ;CMPSB  .model small  .data  string1 db 'abcde',13,10,'$'  string2 db 'abcde',13,10,'$'  equal db 'Equal',13,10,'$'  notequal db 'Not Equal',13,10,'$'  .code  mov ax,@data  mov ds,ax  mov es,ax  start:  lea si,string1  lea di,string2  cld  mov cx,5  repe cmpsb  je hi  jne hello  hi:  mov ah,09h  mov dx,offset equal  int 21h  mov ah,4ch  int 21h    hello:  mov ah,09h  mov dx,offset notequal  int 21h  mov ah,4ch  int 21h |  |
| ; Sample #1  mov ax, 1234h  jmp hello  mov bx, 4567h  hello:  inc ax  mov ah, 4ch  int 21h |  |
| ; Sample #2  mov ax, 1234h  mov bx, 4567h  cmp ax, bx  ja hello  jb hi  hello:  inc ax  mov ah, 4ch  int 21h  hi:  dec ax  mov ah, 4ch  int 21h |  |
| ; Sample #3  mov ax, 1234h  mov bx, 1235h  cmp ax, bx  je hello  jne hi  hello:  inc ax  mov ax, 4c00h  int 21h  hi:  dec ax  mov ax, 4c00h  int 21h |  |
| ; Sample #4  mov ax, 1234h  mov bx, 1235h  cmp ax, bx  jg hello  jl hi  hello:  inc ax    mov ax, 4c00h  int 21h  hi:  dec ax  mov ax, 4c00h  int 21h |  |
| ;sample 1  .model small  .data  var1 db 'hello world',13,10,'$'  .code  mov ax,@data  mov ds,ax  mov ah,09  mov ch,20  ulit:  mov dx,offset var1  int 21h  loop ulit  mov ah,4ch  int 21h |  |
| ;Loop - Sample 2a  .model small  .data  var1 db 'x', '$'  var2 db ' ', 13, 10, '$'  .code  mov ax, @data  mov ds, ax  mov cx, 10  ulit2:  mov bl,cl  mov cl,5  ulit:  mov ah, 09h  mov dx, offset var1  int 21h  loop ulit  mov ah, 09h  mov dx, offset var2  int 21h  mov cl, bl  loop ulit2  mov ah, 4ch  int 21h |  |
| ;Loop - Sample 2b  .model small  .data  var1 db 'x', '$'  var2 db ' ', 13, 10, '$'  .code  mov ax, @data  mov ds, ax  mov cx, 10  ulit2:  push cx  mov cl,5  ulit:  mov ah, 09h  mov dx, offset var1;  int 21h  loop ulit    mov ah, 09h  mov dx, offset var2  int 21h  pop cx  loop ulit2  mov ah, 4ch  int 21h |  |
| ;Loop Sample #3a  .model small  .data  var1 db '\*','$'  var2 db '',10,13,'$'  .code  mov ax, @data  mov ds, ax  mov cl, 3  mov bl, 1h  mov bh, 0  ulit2:  mov bh, cl  mov cl, bl  ulit:  mov ah, 09h  mov dx, offset var1  int 21h  loop ulit  inc bl  mov ah, 09h  mov dx, offset var2  int 21h  mov cl, bh  loop ulit2  mov ah, 4ch  int 21h |  |
| ; Sample 3b  .model small  .data  var1 db '\*', '$'  var2 db '',10,13,'$'  .code  mov ax, @data  mov ds, ax  mov cx, 3  mov bx, 1  ulit2:  push cx  push bx  pop cx  ulit:  mov ah, 09h  mov dx, offset var1  int 21h  loop ulit  inc bx    mov ah, 09h  mov dx, offset var2  int 21h  pop cx  loop ulit2  mov ah, 4ch  int 21h |  |
| .model small  .data  num1 db 2  num2 db 1  num3 db 5  lar db '0',13,10,'$'  .code  start:  mov ax, @data  mov ds, ax  mov al, [num1] ;save num1 sa al  mov bl, [num2] ;save num1 sa bl  mov cl, [num3] ;save num1 sa cl  cmp al, bl ;compare 1 and 2  jg checkthird ;jump para compare  jmp checksecond ;jump para compare  checksecond:  cmp bl, cl ;compare 2 and 3  jg secondlargest ;jump para print second as largest  jmp thirdlargest ;jump para print third as largest  checkthird:  cmp al, cl ;compare 1 and 3  jg firstlargest ;jump para print first as largest  jmp thirdlargest ;jump pag mas mali third as largest  firstlargest:  mov al, [num1] ;save sa AL ung laman ng variable na num1  or al, 30h ;use OR para maging ascii  lea bx, lar ;kukunin address ng variable na LAR at isave sa BX  mov [bx], al ;isave sa memory location ng LAR ung value ng AL  jmp print  secondlargest:  mov al, [num2]  or al, 30h  lea bx, lar  mov [bx], al  jmp print  thirdlargest:  mov al, [num3]  or al, 30h  lea bx, lar  mov [bx], al  jmp print  print:  mov ah, 09  mov dx, offset lar  int 21h  mov ah, 4ch  int 21h |  |