HERE ARE SOME EXAMPLE PIECES and NOTES TO HELP YOU DEVELOP YOUR PROGRAM1

1)

```
;       Keyboard Input Buffer

KbBuff   DB     2           ; max no of input chars
                            ; ( 1 + the enter key)
KbNoRead DB     0           ; No of chars actualy read
                            ; This field is returned
                            ; ( the enter key don't count)
KbIn1    DB     ' '         ; room for char 1
KbEntKey DB     ' '         ; room for the enter key (0Dh)
```

2) Main Program - look at the main block diagram given in the assignment.

3)

```
ClrScreen   Proc            ; Procedure to clear the screen

        push    ax          ; Save all regesters
        push    bx
        push    cx
        push    dx

;       call BIOS to Clear the Screen

        mov     ah,6        ; Clear the screen command
        mov     al,0        ; clear the whole screen
        mov     ch,0        ; Start X Cord.
        mov     cl,0        ; Start Y Cord.
        mov     dh,24       ; End X Cord.
        mov     dl,79       ; End Y Cord.
        mov     bh,7        ; Clear to normal Attributes
        int     10h         ; BIOS interrupt

;       Set the cursor to line 1 position 1

        mov     ah,2
        mov     dh,1        ; row 1
        mov     dl,1        ; column 1
        mov     bh,0        ; page 0
        int     10h         ; BIOS interrupt

        pop     dx          ; Restore all regesters
        pop     cx
        pop     bx
        pop     ax
        ret
ClrScreen  ENDP
```

4)

```
PrtMsg   PROC
        push     ax         ; Save all regesters
        push     bx
        push     cx
        push     dx

;       call OS to Print the Message
        mov      dx,OFFSET Msg1
        mov      ah,9h      ; Function code for display string
        int      21h        ; call OS to do it

        call     GetDate    ; Read and Format the Date
        call     GetTime    ; Get the current time of Day.

        mov      dx,OFFSET Msg2
        mov      ah,9h      ; Function code for display string
        int      21h        ; call OS to do it
        pop      dx         ; Restore all registers
        pop      cx
        pop      bx
        pop      ax
        ret
PrtMsg   ENDP
```

5) An Example program to show how to get the system time and date as well as how to display them is given in the book on Page 474.

6)ReadKeyBoard -Use "int 21h, function 0Ah", read keyboard, and

"int 21h, function 9h", to display string.

7) To_Ascii PROC

```
;       To_Ascii - Proc to take an unsigned binary value located in the
;       AX Reg and convert it to a string of printable ASCII characters.
;       The results are placed in AsciiOut (5 bytes in length).

        push     ax         ; Save all regesters
        push     bx
        push     cx
        push     dx
        push     si

        mov      cx,5       ; number of out put characters
        mov      si,4       ; Index value to ASCIIOut
        mov      bx,10      ; value to divide by
```

```
Ascii_Loop:
        mov     dx,0       ; clear dx for divide
        div     bx         ; divide by 10
        add     dx,30h     ; convert remainder to ascii
        mov     AsciiOut[si],dl   ; move the char to the output
        dec     si         ; sub 1 from the index
        loop    Ascii_Loop ; do it 5 times

        pop     si         ; Restore all regesters
        pop     dx
        pop     cx
        pop     bx
        pop     ax
        ret
To_Ascii ENDP
```