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ORG 100H
.MODEL SMALL
.STACK 100H
.DATA
    buffer DB 100 dup('$')

    todo_text1 DB 100 dup('$')
    todo_text2 DB 100 dup('$')

    todo_date1 DB 100 dup('$')
    todo_date2 DB 100 dup('$')

    taskAdded DB 0

msg_header DB " _____ ",ODH, 0AH
            DB "|_ _|_|_|V|_|_|_",ODH, 0AH
            DB "| |__ _||_|\\ /|_|_|_",ODH, 0AH
            DB "| |/_`|/_|||/ /|V||/_`|_|_|/_`",ODH, 0AH
            DB "| ||(||\\ \\| <|||(|)|_|_|_|_",ODH, 0AH
            DB "|_|\\_||_|/_|_|\\_|_|_|\\_||_|\\_|",ODH, 0AH
            DB " ",ODH, 0AH
            DB " ",ODH, 0AH
            DB "", ODH, 0AH
            DB " [1] Show all tasks", ODH, 0AH
            DB " [2] Add new task", ODH, 0AH
            DB " [3] Update a task", ODH, 0AH
            DB " [4] Delete a task", ODH, 0AH
            DB " [5] Search a task", ODH, 0AH
            DB " [0] Exit", ODH, 0AH
            DB "", ODH, 0AH
            DB "Press any of the given digit to continue...$"

msg_show_all DB "*****", ODH, 0AH
             DB "*" ,ODH, 0AH
             DB "*" All of your TASKS *", ODH, 0AH
             DB "*" ,ODH, 0AH
             DB "*****", ODH, 0AH
             DB "", ODH, 0AH
             DB "$"

msg_update_header DB "*****", ODH, 0AH
                 DB "*" ,ODH, 0AH
                 DB "*" UPDATE task *", ODH, 0AH
                 DB "*" ,ODH, 0AH
                 DB "*****", ODH, 0AH
                 DB "", ODH, 0AH
                 DB "$"

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msg_add_header DB "*****", 0DH, 0AH
DB "*"
DB "*" ADD NEW task "*"
DB "*"
DB "*****", 0DH, 0AH
DB "", 0DH, 0AH
DB "$"

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msg_delete_header DB "*****", 0DH, 0AH
DB "*"
DB "*" DELETE A task "*"
DB "*"
DB "*****", 0DH, 0AH
DB "", 0DH, 0AH
DB "$"

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msg_updating_header DB "*****", 0DH,
0AH

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DB "*"
DB "*" Updating a task "*"
DB "*"
DB "*****", 0DH, 0AH
DB "", 0DH, 0AH
DB "$"

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msg_search_header DB "*****", 0DH,
0AH

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DB "*"
DB "*" SEARCH A TASK "*"
DB "*"
DB "*****", 0DH, 0AH
DB "", 0DH, 0AH
DB "$"

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msg_text DB "Enter Task description : $"

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msg_date DB "Enter Task date(DD/MM/YYYY): $"

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msg_added DB "Task added successfully...$"

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msg_delete DB "DELETE functionality goes here $"

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msg_empty DB "No task found$"

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msg_update DB "Enter the SL No of the task you want to UPDATE$"

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msg_option DB "[1] Main Menu [0] Exit$"

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msg_back DB "OR Press [0] to back$"

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msg_no_match DB "No matching task found.$"

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msg_match_found DB "Matching Task Found:$"

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msg_search_prompt DB "Enter to search$", 0

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newline DB 13, 10, "$"

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.CODE
MAIN PROC
    MOV AX, @DATA
    MOV DS, AX

    MAINMENU_LOOP:
        CLEAR_SCREEN
        SHOW_HEADER

        INPUT_LOOP:
            GETC

            CMP AL, '1'
            JE SM1

            CMP AL, '2'
            JE SM2

            CMP AL, '3'
            JE SM3

            CMP AL, '4'
            JE SM4

            CMP AL, '5'
            JE SM5

            CMP AL, '0'
            JE END_MAIN

            JMP INPUT_LOOP

    SM1:
        CALL SHOW_ALL_TASKS
        JMP MAINMENU_LOOP

    SM2:
        CALL ADD_NEW_TASK
        JMP MAINMENU_LOOP

    SM3:
        CALL UPDATE_TASK
        JMP MAINMENU_LOOP
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SM4:

CALL DELETE_TASK
JMP MAINMENU_LOOP

SM5:

CALL SEARCH_TASK
JMP MAINMENU_LOOP

END_MAIN:

EXIT

MAIN ENDP

SHOW_ENTERED_TASKS PROC

SHOW newline
CMP taskAdded, 0
JE EMPTY
SHOW_TASK "1", todo_text1, todo_date1

CMP taskAdded, 2
JGE SECOND_TASK_OUTPUT
JMP CONT1

EMPTY:
SHOW msg_empty
JMP CONT1

SECOND_TASK_OUTPUT:
SHOW newline
SHOW newline
SHOW_TASK "2", todo_text2, todo_date2
JMP CONT1

; Point From EMPTY block
CONT1:
RET

SHOW_ENTERED_TASKS ENDP

ADD_NEW_TASK PROC

CLEAR_SCREEN
SHOW msg_add_header
SHOW newline

SHOW msg_text

MOV BL, taskAdded

CMP BL, 1

JE SECOND_TASK

GET_STRING todo_text1

SHOW newline

SHOW msg_date

GET_STRING todo_date1

JMP CONT

SECOND_TASK:

GET_STRING todo_text2

SHOW newline

SHOW msg_date

GET_STRING todo_date2

CALL SORT

CONT:

INC taskAdded

SHOW newline

SHOW newline

SHOW msg_added

SHOW newline

SHOW newline

SHOW msg_option

SHOW newline

GETC

RET

ADD_NEW_TASK ENDP

DB "***** "0DH, 0AH

DB "*" All remaining procedures such as "*", 0DH, 0AH

DB "*" Update Task,Delete Task,Search Task "*", 0DH, 0AH

DB "*****", 0DH, 0AH

DB "", 0DH, 0AH

DB "\$"

RET

SWAP_TODO ENDP

END MAIN

