**C program that represents a calendar for a week. Each day has:**

* **dayName (e.g., "Monday")**
* **tasks (array of strings with maximum 3 tasks per day)**

**Note:**

1. **Define appropriate structures.**
2. **Allow the user to input tasks for any day.**
3. **Display all tasks grouped by the day.**

#include <stdio.h>

#include <string.h>

#include <ctype.h>

#define NUM\_DAYS 7

#define MAX\_TASKS 3

#define MAX\_LEN 100

typedef struct {

char day[15];

char taskList[MAX\_TASKS][MAX\_LEN];

int taskCount;

} WeeklySchedule;

void toLowerCase(char\* str) {

for (int i = 0; str[i] != '\0'; i++) {

str[i] = tolower(str[i]);

}

}

int main() {

WeeklySchedule schedule[NUM\_DAYS] = {

{"Monday", {{"\0"}, {"\0"}, {"\0"}}, 0},

{"Tuesday", {{"\0"}, {"\0"}, {"\0"}}, 0},

{"Wednesday", {{"\0"}, {"\0"}, {"\0"}}, 0},

{"Thursday", {{"\0"}, {"\0"}, {"\0"}}, 0},

{"Friday", {{"\0"}, {"\0"}, {"\0"}}, 0},

{"Saturday", {{"\0"}, {"\0"}, {"\0"}}, 0},

{"Sunday", {{"\0"}, {"\0"}, {"\0"}}, 0}

};

int userChoice;

while (1) {

printf("\n1. Add Task\n2. Show All Tasks\n3. Exit\nEnter choice: ");

scanf("%d", &userChoice);

getchar(); // To consume the newline character left by scanf

if (userChoice == 1) {

char inputDay[15];

printf("Enter day: ");

scanf("%s", inputDay);

toLowerCase(inputDay);

int dayFound = 0;

for (int i = 0; i < NUM\_DAYS; i++) {

char currentDay[15];

strcpy(currentDay, schedule[i].day);

toLowerCase(currentDay);

if (strcmp(inputDay, currentDay) == 0) {

dayFound = 1;

if (schedule[i].taskCount >= MAX\_TASKS) {

printf("Maximum %d tasks already added for %s.\n", MAX\_TASKS, schedule[i].day);

} else {

printf("Enter task: ");

scanf(" %[^\n]", schedule[i].taskList[schedule[i].taskCount]);

schedule[i].taskCount++;

printf("Task added.\n");

}

break;

}

}

if (!dayFound) {

printf("Invalid day.\n");

}

} else if (userChoice == 2) {

printf("\n--- Weekly Tasks ---\n");

for (int i = 0; i < NUM\_DAYS; i++) {

printf("%s:\n", schedule[i].day);

if (schedule[i].taskCount == 0) {

printf(" No tasks\n");

} else {

for (int j = 0; j < schedule[i].taskCount; j++) {

printf(" %s\n", schedule[i].taskList[j]);

}

}

}

} else if (userChoice == 3) {

printf("Exiting.\n");

break;

} else {

printf("Invalid choice.\n");

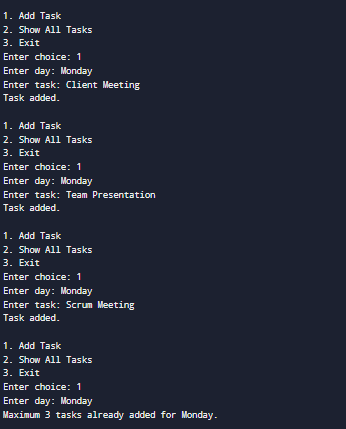
}

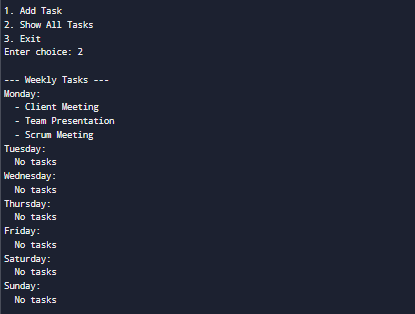
}

return 0;

}

**OUTPUT:**

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