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/*
1. Develop a Program in C for the following:
a) Declare a calendar as an array of 7 elements (A
dynamically Created array) to
represent 7 days of a week. Each Element of the
array is a structure having three
fields. The first field
is the name of the Day (A dynamically allocated
String), The second field is the date
of the Day (A integer), the third field is the
description of the activity for a
particular day (A dynamically allocated String).
b) Write functions create(), read() and display();
to create the calendar, to read the data
from
the keyboard and to print weeks activity details
report on screen.
*/
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#define NO OF DAYS 7
typedef struct
{
    char *name of day;
    int date of day;
    char *activity descr;
} CALENDER;
void create calender(CALENDER a[], int i, char name
[], int date, char activity[])
{
    a[i].name of day = (char *) malloc(strlen(name)
    + 1);
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strcpy(a[i].name of day, name);
    a[i].date of day = date;
    a[i].activity descr = (char *) malloc(strlen(
    activity) + 1);
    strcpy(a[i].activity_descr, activity);
}
void read calender(CALENDER a[])
    int i, date;
    char name[10], activity[10];
    for (i = 0; i < NO OF DAYS; i++)
    {
        scanf("%s", name);
        scanf("%d", &date);
        scanf("%s", activity);
        create calender(a, i, name, date, activity);
    }
}
void print_weeks_activity(CALENDER a[])
    int i;
    printf("Weeks activity\n");
    for (i = 0; i < NO OF DAYS; i++)
    {
        printf("%-10s: %s\n", a[i].name of day, a[i
        ].activity_descr);
    }
}
void main()
{
    CALENDER a[NO OF DAYS];
```

```
Activity\n");
    printf("Name
                     Date
    read calender(a);
    print weeks activity(a);
}
/* OUTPUT
                      Activity
Name
            Date
Monday
            1
                      Working
            2
Tuesday
                      Gym
Wednesday
            3
                      Studying
Thursday
                      Meeting
            4
Friday
                      Shooping
            5
Saturday
                      Cleaning
            6
Sunday
                      Relaxing
Weeks activity
Monday
           : Working
Tuesday
           : Gym
Wednesday
           : Studying
Thursday
          : Meeting
Friday
           : Shooping
Saturday : Cleaning
Sunday
           : Relaxing
...Program finished with exit code 0
Press ENTER to exit console.
*/
```