

PROGRAM TO MAKE A CALENDER

INPUT:-

```
#include <stdio.h>

// Function to determine the number of days in a month
int daysInMonth(int month, int year) {
    if (month == 2) {
        if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0))
            return 29; // Leap year
        else
            return 28;
    } else if (month == 4 || month == 6 || month == 9 || month == 11) {
        return 30;
    } else {
        return 31;
    }
}

// Function to display the calendar
void displayCalendar(int month, int year) {
    int i, j, day = 1, daysInCurrMonth;

    // Find the day of the week for the first day of the month
    int startDay = 1; // Assuming January 1, 1900 was a Monday
    for (i = 1900; i < year; i++) {
        for (j = 1; j <= 12; j++) {
            startDay += daysInMonth(j, i);
        }
    }

    // Adjust for the current year
    for (i = 1; i < month; i++) {
        startDay += daysInMonth(i, year);
    }
}
```

```

// Display the calendar header
printf("\n\n----- %d, %d ----- \n", month, year);
printf(" Sun Mon Tue Wed Thu Fri Sat\n");
// Print leading space before the first day of the month
for (i = 0; i < startDay % 7; i++) {
printf(" ");
}
// Print the days of the month
daysInCurrMonth = daysInMonth(month, year);
for (day = 1; day <= daysInCurrMonth; day++) {
printf("%5d", day);
startDay++;
if (startDay % 7 == 0) {
printf("\n");
}
}
// Print a new line at the end of the calendar
printf("\n");
}
int main() {
int month, year;
// Input month and year
printf("Enter month (1-12): ");
scanf("%d", &month);
printf("Enter year: ");
scanf("%d", &year);
// Display the calendar
displayCalendar(month, year);
return 0;
}

```

OUTPUT :-

```
Enter month (1-12): 9
Enter year: 2006
```

```
----- 9, 2006 -----
Sun  Mon  Tue  Wed  Thu  Fri  Sat
      1      2
  3    4    5    6    7    8    9
 10   11   12   13   14   15   16
 17   18   19   20   21   22   23
 24   25   26   27   28   29   30
```

```
[Process completed - press Enter]
```

```
Enter month (1-12): 9
Enter year: 2024
```

```
----- 9, 2024 -----
Sun  Mon  Tue  Wed  Thu  Fri  Sat
  1    2    3    4    5    6    7
  8    9   10   11   12   13   14
 15   16   17   18   19   20   21
 22   23   24   25   26   27   28
 29   30
```

```
[Process completed - press Enter]
```