

```
#include <stdio.h>
```

```
int starting_day_calculator(int year)
{
    int d;
    d=((year-1)*365)+((year-1)/4)-((year-1)/100)+((year)/400)%7;
    return d;
}
```

```
int main()
{
    int year, yearInp, i, m, d, weekDay, startingDay, day, month, dayCalc, months2Days;
    char note[200];
    int nodays[12] = {31,28,31,30,31,30,31,31,30,31,30,31};
    if((year%4==0)&&(year%100!=0) || (year%400==0))
    {
        nodays[1]=29;
    }
    char *monthName[] =
{"January","February","March","April","May","June","July","August","September","October","November","December"};
    printf("\nHello. This calendar can display Days and Months of a specific Year.");
    printf("\nPlease enter a year: ");
    scanf("%d",&yearInp);
    year=yearInp;
    startingDay=starting_day_calculator(year);
    if(yearInp!=0)
    {
        printf("\nThe Calendar for Year %d is: ",yearInp);
```

```

printf("\n_____
_____");

for(i=0;i<=11;i++)
{
    printf("\n\n _____ %s
_____ ",monthName[i]);

    printf("\n Mon  Tue  Wed  Thurs  Fri  Sat  Sun\n");

    for(weekDay=0;weekDay<startingDay;weekDay++)
    {
        printf("  ");
    }

    for(d=1;d<=nodays[i];d++)
    {
        {

            printf("%7d",d);

            if(++weekDay>=7)
            {
                printf("\n");
                weekDay=0;

            }
            startingDay=weekDay;
        }
    }
}

```

```

    }
}
else
{
    printf("Invalid Year Entered");
    exit(1);
}

```

```

printf("\n\nPlease enter the Date of which you want to find Day for \n\n");
printf("Enter Day: ");
scanf("%d",&day);
printf("\nEnter Month: ");
scanf("%d",&month);
printf("\nEnter Year: ");
scanf("%d",&year);
printf("\n");

```

```

months2Days=0;
for(i=0;i<month;i++)
{
    months2Days=nodays[i]+months2Days;
}
dayCalc=((year-1)*365)+((year-1)/4)-((year-1)/100)+((year)/400)+day+months2Days+4)%7;

```

```

switch (dayCalc)
{
    case 0 :
        printf("The Day is Monday on %d-%d-%d.",day,month,year);
        break;
    case 1 :

```

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    printf("The Day is Tuesday on %d-%d-%d.",day,month,year);
    break;
case 2 :
    printf("The Day is Wednesday on %d-%d-%d.",day,month,year);
    break;
case 3 :
    printf("The Day is Thursday on %d-%d-%d.",day,month,year);
    break;
case 4 :
    printf("The Day is Friday on %d-%d-%d.",day,month,year);
    break;
case 5 :
    printf("The Day is Saturday on %d-%d-%d.",day,month,year);
    break;
case 6 :
    printf("The Day is Sunday on %d-%d-%d.",day,month,year);
    break;
}
if(day-month-year==27-12-2020)
{
    printf("There is a note for this date.\n Akshita's birthday.");
}
else
{
    printf("There are no notes for the date entered. If you wish to take a note for this date, you
can enter the note or press Enter:\n");
    scanf("%s",&note);
    printf("\n Note Saved Successfully.");
}

printf("\n\nPlease enter the specific Month and Year to be displayed: \n");

```

```

printf("Month:");
scanf("%d",&month);
printf("\nYear:");
scanf("%d",&year);
printf("The calendar for %s, %d is:",monthName[month-1],year);
startingDay=starting_day_calculator(year);
printf("\n\n _____ %s

```

---

```

_____ ",monthName[month-1]);

```

```

    printf("\n  Mon   Tue   Wed  Thurs  Fri   Sat   Sun\n");
    {
        for(weekDay=0;weekDay<{(startingDay-1);weekDay++)
        {
            printf("   ");

        }

        for(d=1;d<=nodays[month-1];d++)
        {
            {

                printf("%7d",d);

                if(++weekDay>=7)
                {
                    printf("\n");
                    weekDay=0;

                }

                startingDay=weekDay;
            }
        }
    }
}

```

```
}
```

```
}
```

```
// getch();
```

```
return 0;
```

```
}
```

```
C:\Users\01ary\OneDrive\One\Documents\C\C\bin\Debug\c.exe
Hello. This calendar can display Days and Months of a specific Year.
Please enter a year: 2020
*
The Calendar for Year 2020 is:

January
Mon Tue Wed Thurs Fri Sat Sun
    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 31

February
Mon Tue Wed Thurs Fri Sat Sun
    3  4  5  6  7  1  2
 10 11 12 13 14 15 16
 17 18 19 20 21 22 23
 24 25 26 27 28 29

March
Mon Tue Wed Thurs Fri Sat Sun
    2  3  4  5  6  7  1
  9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29

23 24 25 26 27 28 29
30 31

April
Mon Tue Wed Thurs Fri Sat Sun
    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

May
Mon Tue Wed Thurs Fri Sat Sun
    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 31

June
Mon Tue Wed Thurs Fri Sat Sun
    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

July
Mon Tue Wed Thurs Fri Sat Sun
```

```
Select C:\Users\01ary\OneDrive\One\Documents\C\C\bin\Debug\c.exe

July
Mon Tue Wed Thurs Fri Sat Sun
    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 31

August
Mon Tue Wed Thurs Fri Sat Sun
    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
 31

September
Mon Tue Wed Thurs Fri Sat Sun
    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

October
Mon Tue Wed Thurs Fri Sat Sun
    1  2  3  4
  5  6  7  8  9 10 11
```

```
Select C:\Users\01ary\OneDrive\One\Documents\C\C\bin\Debug\c.exe

 12 13 14 15 16 17 18
 19 20 21 22 23 24 25
 26 27 28 29 30 31

November
Mon Tue Wed Thurs Fri Sat Sun
    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

December
Mon Tue Wed Thurs Fri Sat Sun
    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 31

Please enter the Date of which you want to find Day for
Enter Day: 27
Enter Month: 12
Enter Year: 2020
```

```
Select C:\Users\01ary\OneDrive\One\Documents\C\C\bin\Debug\c.exe

 14 15 16 17 18 19 20
 21 22 23 24 25 26 27
 28 29 30 31

Please enter the Date of which you want to find Day for
Enter Day: 27
Enter Month: 12
Enter Year: 2020

The Day is Monday on 27-12-2020. There is a note for this date.
Akshita's birthday.

Please enter the specific Month and Year to be displayed:
Month:12
Year:2020
The calendar for December, 2020 is:

December
Mon Tue Wed Thurs Fri Sat Sun
    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 31

Process returned 0 (0x0)   execution time : 24.390 s
Press any key to continue.
```