

The background of the slide is a dense field of 3D-rendered numbers in various shades of blue and white. The numbers are of different sizes and are scattered across the entire frame, creating a sense of depth and movement. Some numbers are in the foreground, appearing larger and more detailed, while others are in the background, appearing smaller and more faded. The numbers include digits from 0 to 9, as well as some special characters like the hash symbol (#) and the plus sign (+).

# Calendar Through C Programming

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# INTRODUCTION

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A calendar is a system of organizing days. This is done by giving names to periods of time, typically days, weeks, months and years. This report has described the successful design and development of a calendar program.

The project shows the calendar for a particular year. It also shows the day for the corresponding date and also shows the leap year.

# HARDWARE AND SOFTWARE REQUIREMENTS

## **HARDWARE**

Processor AMD Ryzen 5 3450U with Radeon Vega Mobile Gfx 2.10 GHz

Installed RAM 8.00 GB (5.92 GB usable)

System type 64-bit operating system, x64-based processor

## **SOFTWARE**

The program is compiled in code::blocks using GCC compiler.

Windows XP and upwards

# SCREENSHOTS

## 1. Display the calendar for a particular year

```
C:\Users\smsag\OneDrive\Documents\pro.exe
MENU
1.Display the calendar for a particular year
2.Display the day corresponding to given date
3.To check if it is leap year or not
4.Exit
Enter your choice: 1
Enter the year: 2022
Calendar - 2022

-----January-----
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 31

-----February-----
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

-----March-----
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 31

-----April-----
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
```

```
C:\Users\smsag\OneDrive\Documents\pro.exe
-----May-----
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 31

-----June-----
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

-----July-----
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
31

-----August-----
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 31

-----September-----
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

-----October-----
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 31
```

```
C:\Users\smsag\OneDrive\Documents\pro.exe
-----November-----
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

-----December-----
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 31

MENU
1.Display the calendar for a particular year
2.Display the day corresponding to given date
3.To check if it is leap year or not
4.Exit
Enter your choice: 4

Process returned 0 (0x0)   execution time : 24.046 s
Press any key to continue.
```



## 2. Display the day corresponding to the given date

```
C:\Users\smsag\OneDrive\Documents\pro.exe

MENU

1.Display the calendar for a particular year
2.Display the day corresponding to given date
3.To check if it is leap year or not
4.Exit
Enter your choice: 2
Enter a valid date (dd/mm/yyyy) : 28/03/2022

The day is : Monday
The Month is: March

MENU

1.Display the calendar for a particular year
2.Display the day corresponding to given date
3.To check if it is leap year or not
4.Exit
Enter your choice: 4

Process returned 0 (0x0) execution time : 16.855 s
Press any key to continue.
```

## 3. To check if it is leap year or not

```
C:\Users\smsag\OneDrive\Documents\pro.exe

4.Exit
Enter your choice: 3

Enter a year: 2000

2000 is a leap year.

MENU

1.Display the calendar for a particular year
2.Display the day corresponding to given date
3.To check if it is leap year or not
4.Exit
Enter your choice: 3

Enter a year: 2003

2003 is not a leap year.

MENU

1.Display the calendar for a particular year
2.Display the day corresponding to given date
3.To check if it is leap year or not
4.Exit
Enter your choice: 4

Process returned 0 (0x0) execution time : 31.005 s
Press any key to continue.
```

# REFERENCES

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- <https://www.programiz.com/c-programming/examples/leap-year>
- <https://www.programiz.com/c-programming/examples/leap-year>
- [https://en.wikipedia.org/wiki/Determination\\_of\\_the\\_day\\_of\\_the\\_week#Implementation-dependent\\_methods\\_of\\_Sakamoto.2C\\_Lachman.2C\\_Keith\\_and\\_Craver](https://en.wikipedia.org/wiki/Determination_of_the_day_of_the_week#Implementation-dependent_methods_of_Sakamoto.2C_Lachman.2C_Keith_and_Craver)

THANKYOU