

*1. Length of a Month*

```
#include <library.h>

int num_year(const int year)
{
    if(year % 4 == 0)
        return 366;
    else
        return 365; }

int num_month(double month, double year)
{
    if(month == 4 || month == 6 || month == 9 || month == 11)
        return 30;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 31;}

void day_of_the_year()
{
    print("What is the year? ");
    const int year = read_int();
    print("What is the month? ");
    const int month = read_int();

    if(month==1)
    { print("January "); }
    if(month==2)
    { print("February "); }
    if(month==3)
    { print("March "); }
    if(month==4)
    { print("April "); }
    if(month==5)
    { print("May "); }
    if(month==6)
    { print("June "); }
    if(month==7)
    { print("July "); }
    if(month==8)
    { print("August "); }
    if(month==9)
    { print("September "); }
    if(month==10)
    { print("October "); }
```

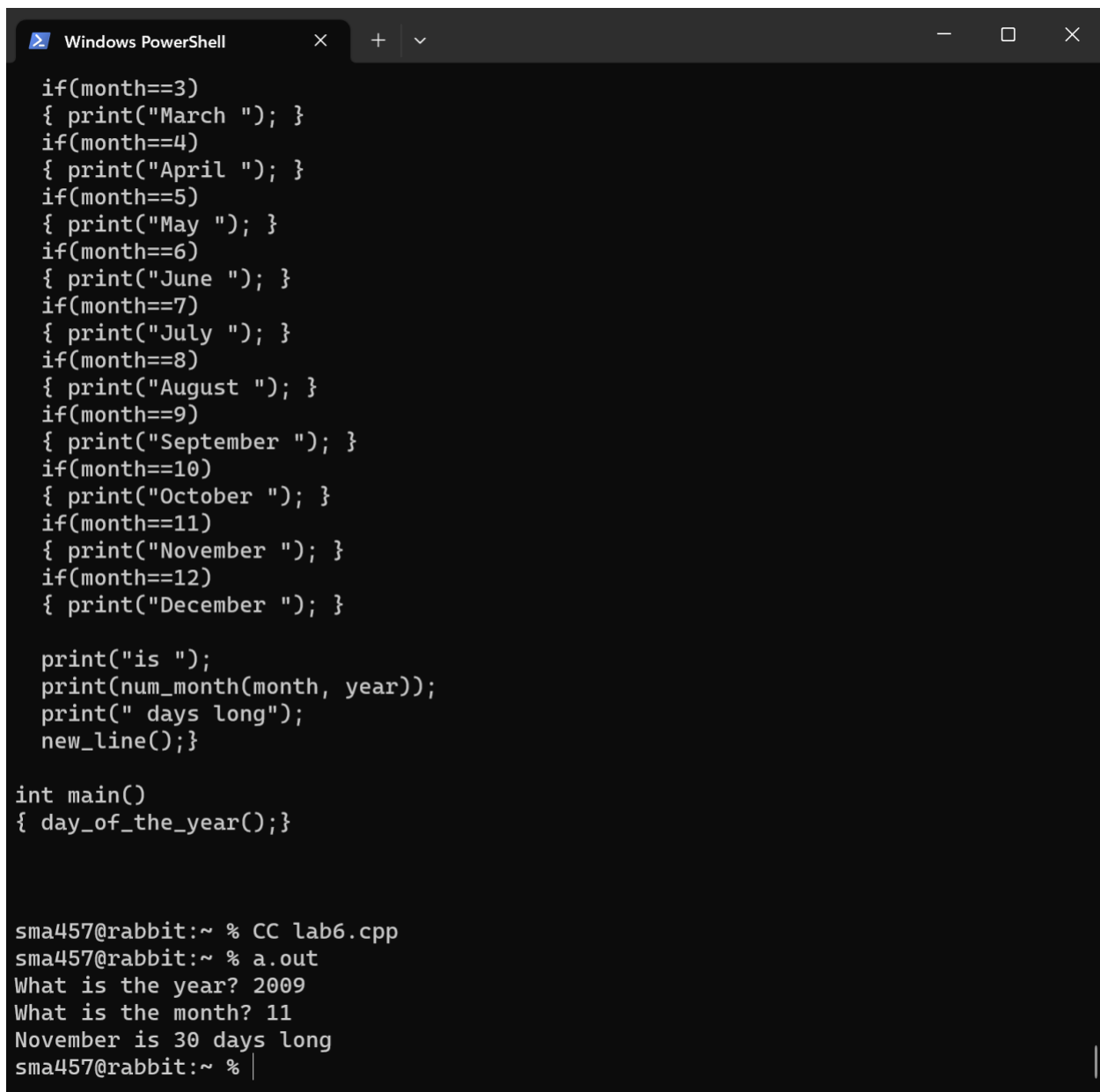
```

        if(month==11)
        { print("November "); }
        if(month==12)
        { print("December "); }

        print("is ");
        print(num_month(month, year));
        print(" days long");
        new_line();}

int main()
{
    day_of_the_year();}

```



The screenshot shows a Windows PowerShell terminal window with a dark background. The title bar indicates it is a 'Windows PowerShell' session. The code displayed is the same as the one in the first block, but with an additional condition for month 3 (March). The execution output shows the program running on a system named 'sma457@rabbit', where the user entered '2009' for the year and '11' for the month, resulting in the output 'November is 30 days long'.

```

if(month==3)
{ print("March "); }
if(month==4)
{ print("April "); }
if(month==5)
{ print("May "); }
if(month==6)
{ print("June "); }
if(month==7)
{ print("July "); }
if(month==8)
{ print("August "); }
if(month==9)
{ print("September "); }
if(month==10)
{ print("October "); }
if(month==11)
{ print("November "); }
if(month==12)
{ print("December "); }

print("is ");
print(num_month(month, year));
print(" days long");
new_line();}

int main()
{ day_of_the_year();}

sma457@rabbit:~ % CC lab6.cpp
sma457@rabbit:~ % a.out
What is the year? 2009
What is the month? 11
November is 30 days long
sma457@rabbit:~ %

```

## 2. Day of the Year.

```
#include <library.h>

int num_year(const int year)
{
    if(year % 4 == 0)
        return 366;
    else
        return 365; }

int num_month(double month, double year)
{
    if(month == 4 || month == 6 || month == 9 || month == 11)
        return 30;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 31;}

int day_of_year(double day, double month, double year)
{
    double result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }
    return result;}

void day_of_the_year()
{
    print("What is the year? ");
    const int year = read_int();
    print("What is the month? ");
    const int month = read_int();
    print("What is the day? ");
    const int day = read_int();

    if(month==1)
    { print("January "); }
    if(month==2)
    { print("February "); }
    if(month==3)
    { print("March "); }
    if(month==4)
    { print("April "); }
    if(month==5)
    { print("May "); }
    if(month==6)
    { print("June "); }
    if(month==7)
    { print("July "); }
    if(month==8)
    { print("August "); }
```

```

        if(month==9)
        { print("September "); }
        if(month==10)
        { print("October "); }
        if(month==11)
        { print("November "); }
        if(month==12)
        { print("December "); }

        print(day);

        if(day==1 || day==21)
        { print("st "); }
        if(day==2 || day==22)
        { print("nd "); }
        if(day==3 || day==23)
        { print("rd "); }
        else
        { print("th "); }

        print("is the ");
        print(day_of_year(day, month, year));
        print(" day of the year");
        new_line();}

int main()
{
    day_of_the_year();}

```

```

Windows PowerShell
{ print("August "); }
if(month==9)
{ print("September "); }
if(month==10)
{ print("October "); }
if(month==11)
{ print("November "); }
if(month==12)
{ print("December "); }

print(day);

if(day==1 || day==21)
{ print("st "); }
if(day==2 || day==22)
{ print("nd "); }
if(day==3 || day==23)
{ print("rd "); }
else
{ print("th "); }

print("is the ");
print(day_of_century(day, month, year));
print(" day of the year");
new_line();}

int main()
{ day_of_the_year();}

sma457@rabbit:~ % a.out
What is the year? 2012
What is the month? 5
What is the day? 23
May 23rd is the 144 day of the year
sma457@rabbit:~ %

```

### 3. *Day of the Century*

```
#include <library.h>
```

```
int num_year(const int year)
```

```
{    if(year % 4 == 0)
        return 366;
    else
        return 365; }
```

```
int num_month(double month, double year)
```

```
{    if(month == 4 || month == 6 || month == 9 || month == 11)
        return 30;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 31;}
```

```
int day_of_year(int day, int month, int year)
```

```
{    int result = day;
    while(month > 1 && year >= 0)
    {    if (year % 100 == 0)
            result = result + num_month(month - 1, year);
        month = month - 1;}

    return result; }
```

```
int day_of_century(int day, int month, int year)
```

```
{    int result = day;
    while(month > 1)
    {    result = result + num_month(month - 1, year);
        month = month - 1; }

    while(year >= 0)
    {    if(year % 100 == 0)
            result = result + num_year(year - 1);
        year = year - 1;}

    return result; }
```

```
void day_of_the_year()
{ print("What is the year? ");
  const int year = read_int();
  print("What is the month? ");
  const int month = read_int();
  print("What is the day? ");
  const int day = read_int();
```

```
    if(month==1)
    { print("January "); }
    if(month==2)
    { print("February "); }
    if(month==3)
    { print("March "); }
    if(month==4)
    { print("April "); }
    if(month==5)
    { print("May "); }
    if(month==6)
    { print("June "); }
    if(month==7)
    { print("July "); }
    if(month==8)
    { print("August "); }
    if(month==9)
    { print("September "); }
    if(month==10)
    { print("October "); }
    if(month==11)
    { print("November "); }
    if(month==12)
    { print("December "); }
```

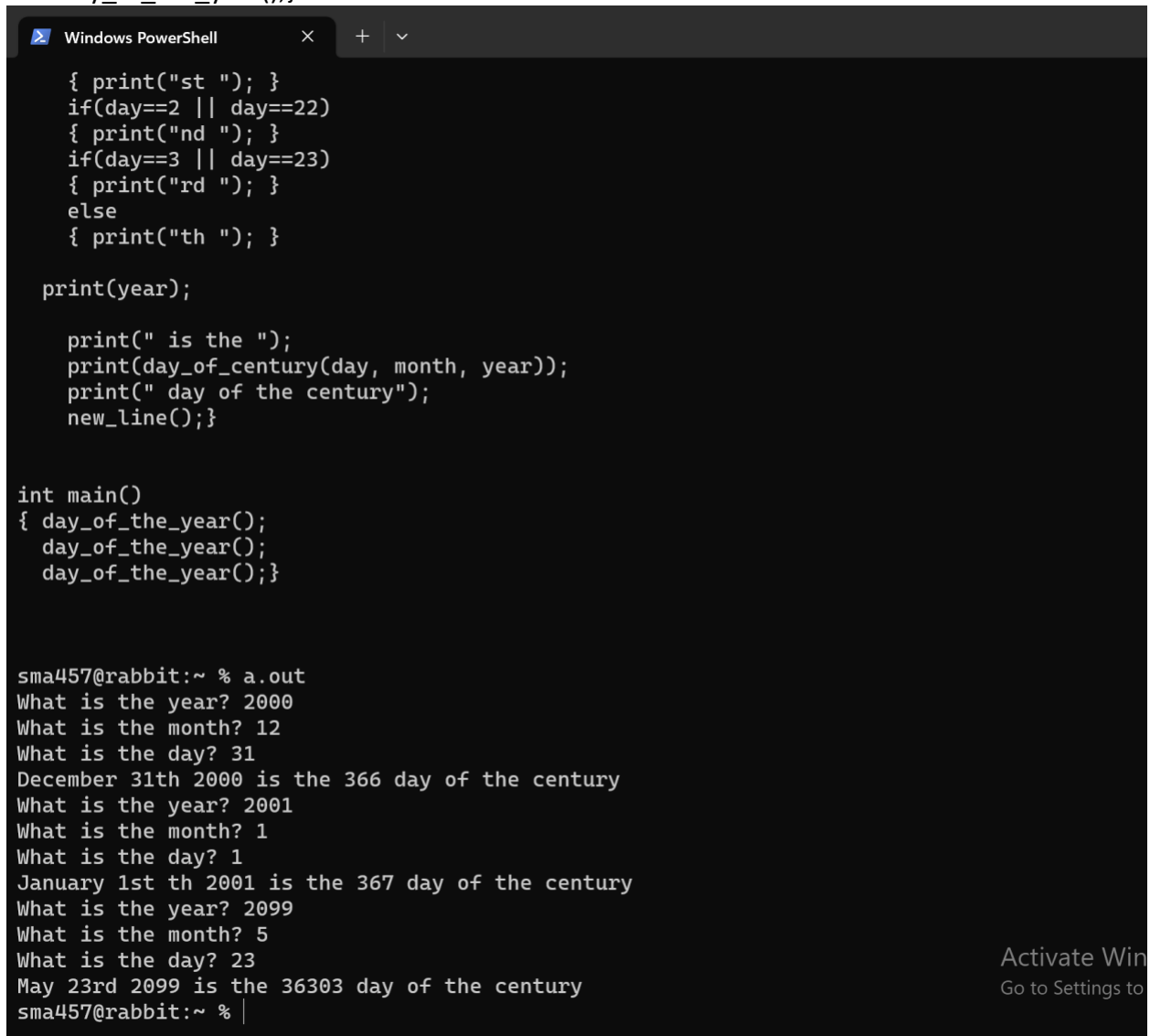
```
print(day);
```

```
if(day==1 || day==21)
{ print("st "); }
if(day==2 || day==22)
{ print("nd "); }
if(day==3 || day==23)
{ print("rd "); }
else
{ print("th "); }
```

```
print(year);
```

```
print(" is the ");  
print(day_of_century(day, month, year));  
print(" day of the century");  
new_line();}
```

```
int main()  
{ day_of_the_year();  
  day_of_the_year();  
  day_of_the_year();}
```



```
Windows PowerShell  
  
{ print("st "); }  
if(day==2 || day==22)  
{ print("nd "); }  
if(day==3 || day==23)  
{ print("rd "); }  
else  
{ print("th "); }  
  
print(year);  
  
print(" is the ");  
print(day_of_century(day, month, year));  
print(" day of the century");  
new_line();}  
  
int main()  
{ day_of_the_year();  
  day_of_the_year();  
  day_of_the_year();}  
  
sma457@rabbit:~ % a.out  
What is the year? 2000  
What is the month? 12  
What is the day? 31  
December 31th 2000 is the 366 day of the century  
What is the year? 2001  
What is the month? 1  
What is the day? 1  
January 1st th 2001 is the 367 day of the century  
What is the year? 2099  
What is the month? 5  
What is the day? 23  
May 23rd 2099 is the 36303 day of the century  
sma457@rabbit:~ % |
```

Activate Windows  
Go to Settings to activate Windows.

#### 4. Day of Forever.

```
#include <library.h>

int num_year(int year)
{
    if (year > 0)
        if((year % 400 == 0 || year % 4 == 0 && year % 100 != 0))
            return 366;
        else
            return 365;
    else
        return 0;}

int num_month(double month, double year)
{
    if(month == 1 || month == 3 || month == 5 || month == 7 || month == 8 ||
month == 10 || month == 12)
        return 31;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 30;}

int num_day(int day,int month,int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    return result;
}

int day_of_century(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    while(year >= 0)
    {
        if (year % 100 == 0)
            result = result + num_year(year - 1);
        year = year - 1;
    }
    return result;
}

int day_of_forever(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }
```



```

        while (year >= 0)
        {   result = result + num_year(year);
            year = year - 1;}

        return result; }

void day_of_the_year()
{   print("What is the year? ");
    const int year = read_int();
    print("What is the month? ");
    const int month = read_int();
    print("What is the day? ");
    const int day = read_int();

    if(month==1)
    { print("January "); }
    if(month==2)
    { print("February "); }
    if(month==3)
    { print("March "); }
    if(month==4)
    { print("April "); }
    if(month==5)
    { print("May "); }
    if(month==6)
    { print("June "); }
    if(month==7)
    { print("July "); }
    if(month==8)
    { print("August "); }
    if(month==9)
    { print("September "); }
    if(month==10)
    { print("October "); }
    if(month==11)
    { print("November "); }
    if(month==12)
    { print("December "); }

    print(day);

    if(day==1 || day==21)
    { print("st "); }
    if(day==2 || day==22)
    { print("nd "); }
    if(day==3 || day==23)
    { print("rd "); }
    else
    { print("th "); }

    print(year);

```

```

        print(" is day number ");
        if (year % 400 == 0)
            print(day_of_forever(day, month, year));
        else
            print(day_of_forever(day, month, year)+1);
        new_line(); }

int main()
{
    day_of_the_year();
    day_of_the_year();
    day_of_the_year();}

```

```

        { print("nd "); }
        if(day==3 || day==23)
        { print("rd "); }
        else
        { print("th "); }

    print(year);

    print(" is day number ");
    if (year % 400 == 0)
        print(day_of_forever(day, month, year));
    else
        print(day_of_forever(day, month, year)+1);
    new_line(); }

int main()
{
    day_of_the_year();
    day_of_the_year();
    day_of_the_year();}

```

```

sma457@rabbit:~ % CC lab6.cpp
sma457@rabbit:~ % a.out
What is the year? 1900
What is the month? 1
What is the day? 1
January 1st th 1900 is day number 693962
What is the year? 2023
What is the month? 10
What is the day? 3
October 3rd 2023 is day number 739162
What is the year? 2737
What is the month? 11
What is the day? 27
November 27th 2737 is day number 1000000
sma457@rabbit:~ %

```

Activate Windows  
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## 5. Day of the Week.

```
#include <library.h>

int num_year(int year)
{
    if (year > 0)
        if((year % 400 == 0 || year % 4 == 0 && year % 100 != 0))
            return 366;
        else
            return 365;
    else
        return 0;}

int num_month(double month, double year)
{
    if(month == 1 || month == 3 || month == 5 || month == 7 || month == 8 ||
month == 10 || month == 12)
        return 31;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 30;}

int num_day(int day,int month,int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    return result;
}

int day_of_century(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    while(year >= 0)
    {
        if (year % 100 == 0)
            result = result + num_year(year - 1);
        year = year - 1;
    }
    return result;
}

int day_of_forever(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }
```

```

    while (year >= 0)
    {   result = result + num_year(year);
        year = year - 1;}

    return result; }

int day_week(int day, int month, int year)
{   int num = 0;
    if (year % 400 == 0)
        num = day_of_forever(day, month, year);
    else
        num = day_of_forever(day, month, year) + 1;

    return num;}

string day_of_the_week(const int day, const int month, const int year)
{   string weeks[] =
{"Friday","Saturday","Sunday","Monday","Tuesday","Wednesday","Thursday"};
    string weekday = weeks[day_week(day, month, year) % 7];
    return(weekday); }

void day_of_the_year()
{   print("What is the year? ");
    const int year = read_int();
    print("What is the month? ");
    const int month = read_int();
    print("What is the day? ");
    const int day = read_int();

    if(month==1)
    { print("January "); }
    if(month==2)
    { print("February "); }
    if(month==3)
    { print("March "); }
    if(month==4)
    { print("April "); }
    if(month==5)
    { print("May "); }
    if(month==6)
    { print("June "); }
    if(month==7)
    { print("July "); }
    if(month==8)
    { print("August "); }
    if(month==9)
    { print("September "); }
    if(month==10)
    { print("October "); }
    if(month==11)
    { print("November "); }

```

```

        if(month==12)
        { print("December "); }

    print(day);

    if(day==1 || day==21)
    { print("st "); }
    if(day==2 || day==22)
    { print("nd "); }
    if(day==3 || day==23)
    { print("rd "); }
    else
    { print("th "); }

    print(year);

    print(" is a ");
    print(day_of_the_week(day, month, year));
    print(".");
    new_line();}

int main()
{
    day_of_the_year();
    day_of_the_year();
    day_of_the_year();
    day_of_the_year();
    day_of_the_year();}

```

```

Windows PowerShell
if(day==3 || day==23)
{ print("rd "); }
else
{ print("th "); }

print(year);

print(" is a ");
print(day_of_the_week(day, month, year));
print(".");
new_line();}

int main()
{ day_of_the_year();
  day_of_the_year();
  day_of_the_year();
  day_of_the_year();
  day_of_the_year();}

sma457@rabbit:~ % CC lab6.cpp
sma457@rabbit:~ % a.out
What is the year? 2000
What is the month? 1
What is the day? 1
January 1st th 2000 is a Saturday.
What is the year? 2023
What is the month? 10
What is the day? 3
October 3rd 2023 is a Tuesday.
What is the year? 2737
What is the month? 11
What is the day? 27
November 27th 2737 is a Saturday.
What is the year? |

Activate Windows
Go to Settings to activate Windows.

```

## 6. A Calendar for a Month

```
#include <library.h>

int num_year(int year)
{
    if (year > 0)
        if((year % 400 == 0 || year % 4 == 0 && year % 100 != 0))
            return 366;
        else
            return 365;
    else
        return 0;}

int num_month(double month, double year)
{
    if(month == 1 || month == 3 || month == 5 || month == 7 || month == 8 ||
month == 10 || month == 12)
        return 31;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 30;}

int num_day(int day,int month,int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    return result;
}

int day_of_century(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    while(year >= 0)
    {
        if (year % 100 == 0)
            result = result + num_year(year - 1);
        year = year - 1;
    }
    return result;
}

int day_of_forever(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }
```

```

while (year >= 0)
{   result = result + num_year(year);
    year = year - 1;}

return result; }

int day_week(int day, int month, int year)
{   int num = 0;
    if (year % 400 == 0)
        num = day_of_forever(day, month, year);
    else
        num = day_of_forever(day, month, year) + 1;

    return num;}

string day_of_the_week(const int day, const int month, const int year)
{   string weeks[] =
{"Friday","Saturday","Sunday","Monday","Tuesday","Wednesday","Thursday"};
    string weekday = weeks[day_week(day, month, year) % 7];
    return(weekday); }

void calendar(int const year,int const month)
{   const int day = 1;
    int space, i, j, sum, daycount, cases = 1;
    sum = day_week(day, month, year);
    space = (sum % 7) + 4;
    daycount = num_month(month, year);
    print(" ");
    print(month);
    print(" ");
    print(year);
    print(" ");
    new_line();
    print(" Mon Tue Wed Thu Fri Sat Sun");
    new_line();
    for(i = 0; i < space % 7; i = i + 1)
    {   print(" ");}
    for(i = 1, j = space + 1; i <= daycount; i = i + 1, j = j + 1)
    {if(i < 10)
    {   print(" ");
        print(i);}
    else if(i >= 10)
    {   print(" ");
        print(i);}
    if(j % 7 == 0)
    {   new_line();}}
    new_line();}

void draw_calendar()
{   print("Enter the year: ");
    const int year = read_int();

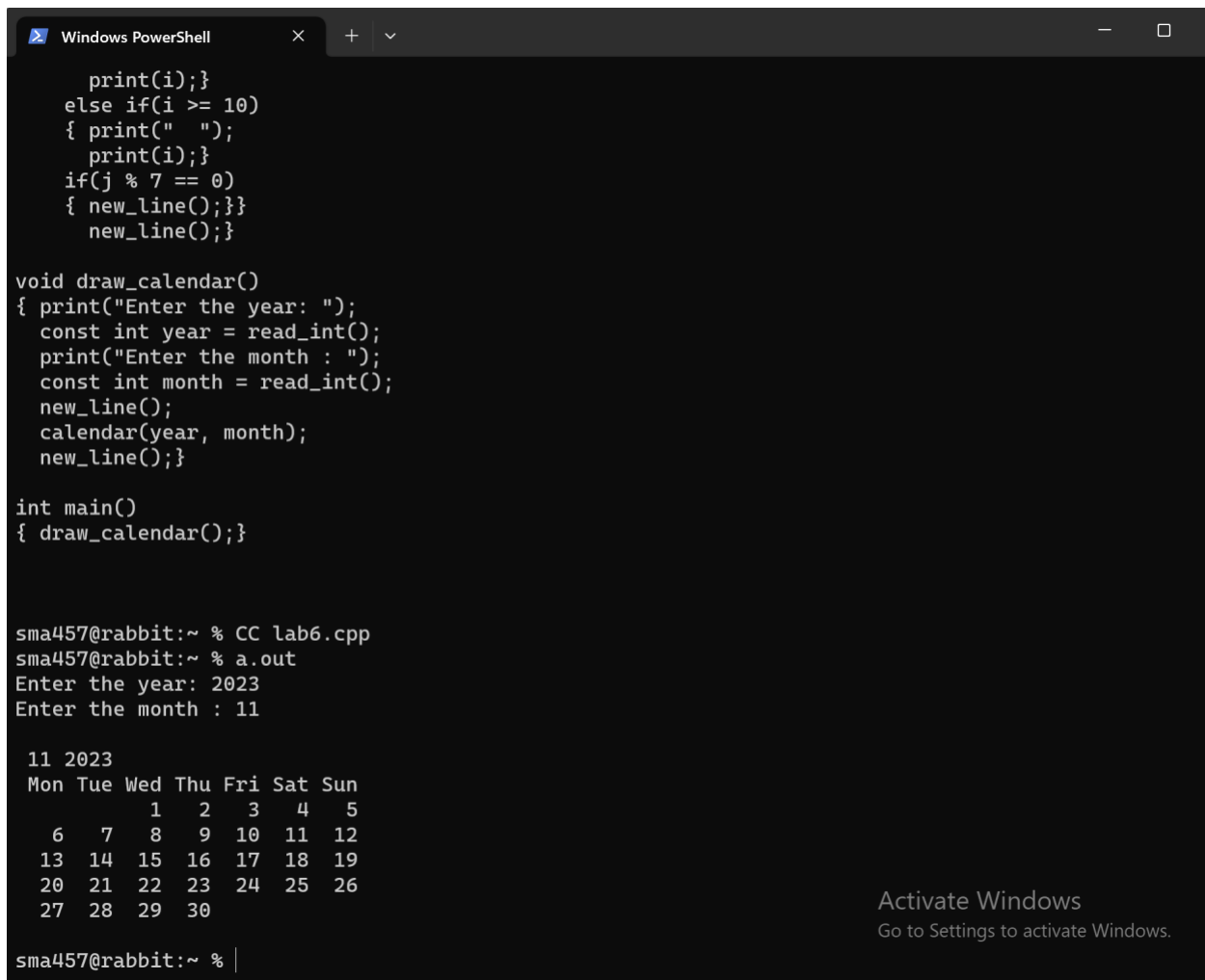
```

```

        print("Enter the month : ");
        const int month = read_int();
        new_line();
        calendar(year, month);
        new_line();}

int main()
{    draw_calendar();}

```



```

print(i);}
else if(i >= 10)
{ print(" ");
  print(i);}
if(j % 7 == 0)
{ new_line();}}
new_line();}

void draw_calendar()
{ print("Enter the year: ");
  const int year = read_int();
  print("Enter the month : ");
  const int month = read_int();
  new_line();
  calendar(year, month);
  new_line();}

int main()
{ draw_calendar();}

sma457@rabbit:~ % CC lab6.cpp
sma457@rabbit:~ % a.out
Enter the year: 2023
Enter the month : 11

11 2023
Mon Tue Wed Thu 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

sma457@rabbit:~ %

```

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## 7. A Season at a Glance

```
#include <library.h>

int num_year(int year)
{
    if (year > 0)
        if((year % 400 == 0 || year % 4 == 0 && year % 100 != 0))
            return 366;
        else
            return 365;
    else
        return 0;}

int num_month(double month, double year)
{
    if(month == 1 || month == 3 || month == 5 || month == 7 || month == 8 ||
month == 10 || month == 12)
        return 31;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 30;}

int num_day(int day,int month,int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    return result;
}

int day_of_century(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    while(year >= 0)
    {
        if (year % 100 == 0)
            result = result + num_year(year - 1);
        year = year - 1;
    }
    return result;
}

int day_of_forever(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }
```

```

while (year >= 0)
{   result = result + num_year(year);
    year = year - 1;}

return result; }

int day_week(int day, int month, int year)
{   int num = 0;
    if (year % 400 == 0)
        num = day_of_forever(day, month, year);
    else
        num = day_of_forever(day, month, year) + 1;

    return num;}

string day_of_the_week(const int day, const int month, const int year)
{   string weeks[] =
{"Friday", "Saturday", "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday"};
    string weekday = weeks[day_week(day, month, year) % 7];
    return(weekday); }

string months(const int month)
{   string monthName[] =
{"January", "February", "March", "April", "May", "June", "July", "August", "September", "October", "November", "December"};
    return (monthName[month - 1]); }

void calendar(int const year, int const month)
{   const int day = 1;
    int space, i, j, sum, daycount, cases = 1;
    sum = day_week(day, month, year);
    space = (sum % 7) + 4;
    daycount = num_month(month, year);
    print(" ");
    print(months(month));
    print(" ");
    print(year);
    print(" ");
    new_line();
    print(" Mon Tue Wed Thu Fri Sat Sun");
    new_line();
    for(i = 0; i < space % 7; i = i + 1)
    {   print(" ");}
    for(i = 1, j = space + 1; i <= daycount; i = i + 1, j = j + 1)
    {if(i < 10)
    {   print(" ");
        print(i);}
    else if(i >= 10)
    {   print(" ");
        print(i);}
    if(j % 7 == 0)

```

```

        {    new_line();}}
        new_line();}

void draw_calendar()
{    print("Enter the year: ");
    const int year = read_int();
    print("Enter the month: ");
    const int month = read_int();
    new_line();
    calendar(year, month - 1);
    new_line();
    calendar(year, month);
    new_line();
    calendar(year, month + 1);
    new_line();
    draw_calendar(); }

int main()
{    draw_calendar();}

```

The screenshot shows a Windows PowerShell terminal window with the following content:

```

Enter the year: 2023
Enter the month: 11

October 2023
Mon Tue Wed Thu 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

November 2023
Mon Tue Wed Thu 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 2023
Mon Tue Wed Thu 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

Enter the year: |

```

## 8. *The Final Product*

```
#include <library.h>

int num_year(int year)
{
    if (year > 0)
        if((year % 400 == 0 || year % 4 == 0 && year % 100 != 0))
            return 366;
        else
            return 365;
    else
        return 0;}

int num_month(double month, double year)
{
    if(month == 1 || month == 3 || month == 5 || month == 7 || month == 8 ||
month == 10 || month == 12)
        return 31;
    else if(month == 2 && num_year(year) == 366)
        return 29;
    else if(month == 2 && num_year(year) == 365)
        return 28;
    else
        return 30;}

int num_day(int day,int month,int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    return result;
}

int day_of_century(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }

    while(year >= 0)
    {
        if (year % 100 == 0)
            result = result + num_year(year - 1);
        year = year - 1;
    }
    return result;
}

int day_of_forever(int day, int month, int year)
{
    int result = day;
    while(month > 1)
    {
        result = result + num_month(month - 1, year);
        month = month - 1; }
```

```

    while (year >= 0)
    {   result = result + num_year(year);
        year = year - 1;}

    return result; }

int day_week(int day, int month, int year)
{   int num = 0;
    if (year % 400 == 0)
        num = day_of_forever(day, month, year);
    else
        num = day_of_forever(day, month, year) + 1;

    return num;}

string day_of_the_week(const int day, const int month, const int year)
{   string weeks[] =
{"Friday","Saturday","Sunday","Monday","Tuesday","Wednesday","Thursday"};
    string weekday = weeks[day_week(day, month, year) % 7];
    return(weekday); }

string month_name(const int month)
{   string monthName[] =
{"January","February","March","April","May","June","July","August","September","October",
"November","December"};
    return (monthName[month - 1]); }

void calendar(int const year,int const month)
{   const int day = 1;
    int space, i, j, sum, daycount, cases = 1;
    sum = day_week(day, month, year);
    space = (sum % 7) + 4;
    daycount = num_month(month, year);
    print(" ");
    print(month_name(month));
    print(" ");
    print(year);
    print(" ");
    new_line();
    print(" Mon Tue Wed Thu Fri Sat Sun");
    new_line();
    for(i = 0; i < space % 7; i = i + 1)
    {   print(" ");}
    for(i = 1, j = space + 1; i <= daycount; i = i + 1, j = j + 1)
    {if(i < 10)
    {   print(" ");
        print(i);}
    else if(i >= 10)
    {   print(" ");
        print(i);}
    if(j % 7 == 0)

```

```

        {    new_line();}}
        new_line();}

void draw_calendar()
{    print("Enter the year: ");
    const int year = read_int();
    print("Enter the month: ");
    const int month = read_int();
    new_line();
    calendar(year, month - 1);
    new_line();
    calendar(year, month);
    new_line();
    calendar(year, month + 1);
    new_line();
    draw_calendar(); }

int main()
{    draw_calendar();}

```

```

Windows PowerShell
int main()
{ draw_calendar();}

sma457@rabbit:~ % CC lab6.cpp
sma457@rabbit:~ % a.out
Enter the year: 1900
Enter the month: 3

February 1900
Mon Tue Wed Thu 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

March 1900
Mon Tue Wed Thu 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

April 1900
Mon Tue Wed Thu 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

Enter the year: |

```

Activate Windows  
Go to Settings to activate Windows.