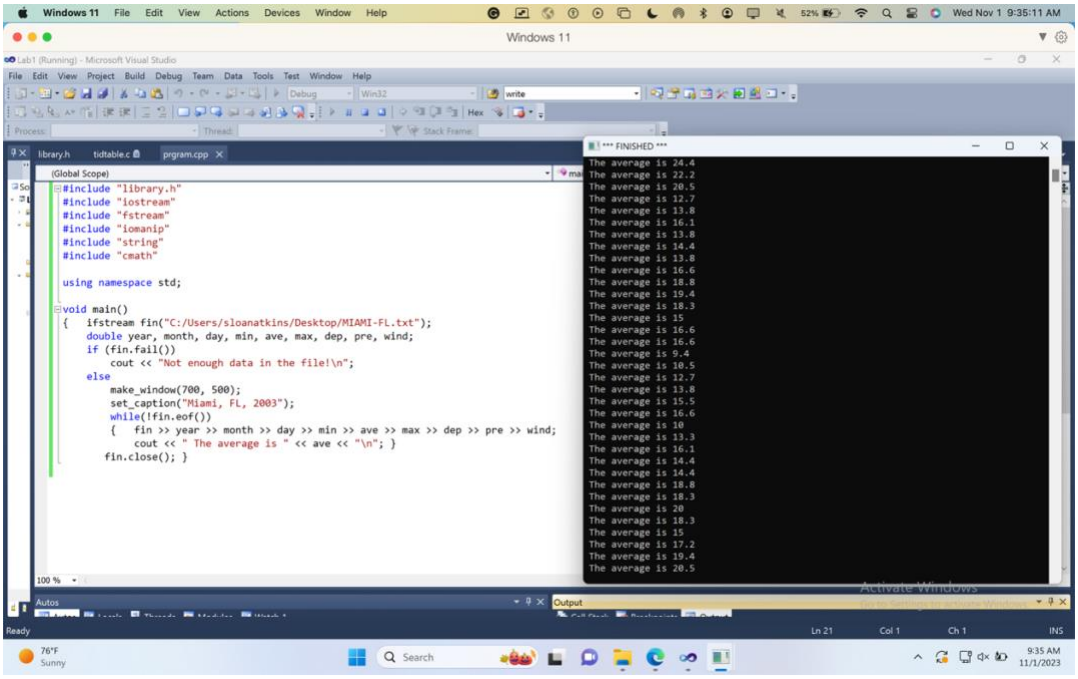
Lab 9

ECE 118 – Section R/RC
Lab on Wednesday at 5:05
Sloan Atkins

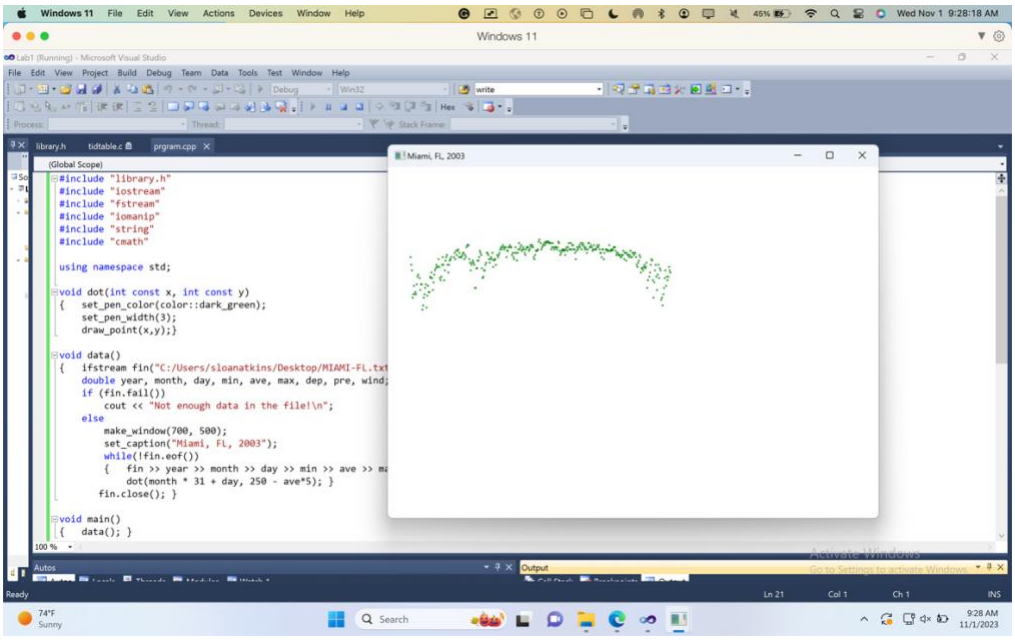
1. Make sure you can read the file

```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void main()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
    if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            make_window(700, 500);
            set_caption("Miami, FL, 2003");
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  cout << " The average is " << ave << "\n"; }
       fin.close(); }
```



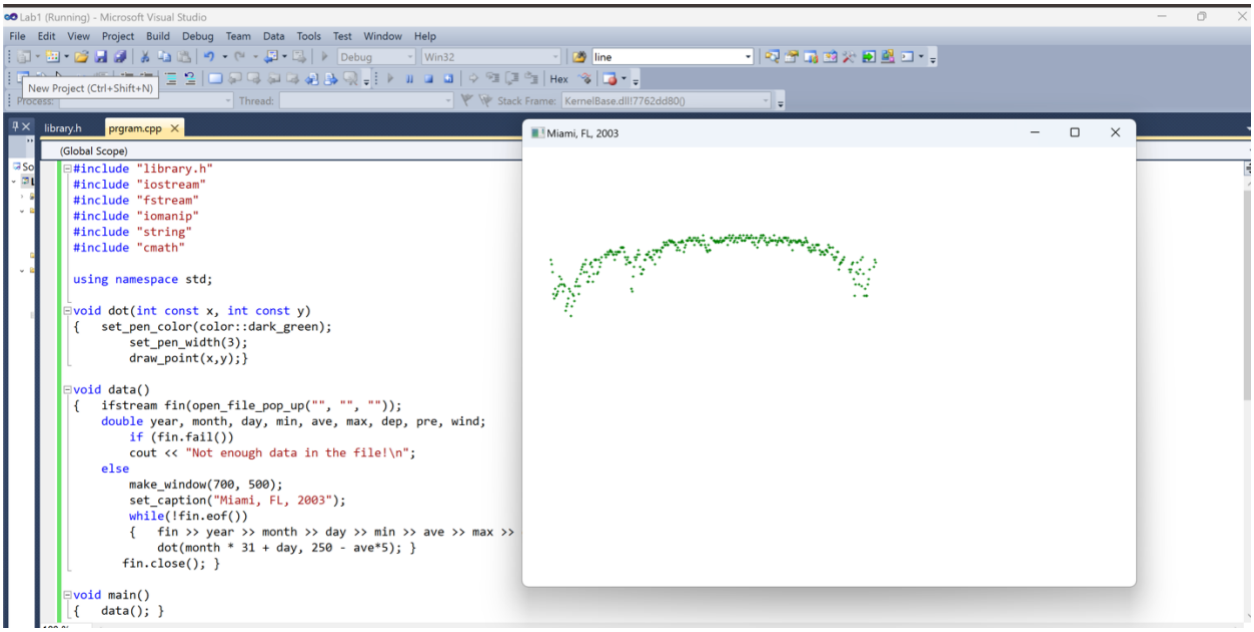
2. Turn the numbers into a graph

```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void dot(int const x, int const y)
{	set_pen_color(color::dark_green);
	set_pen_width(3);
	draw_point(x,y);}

void data()
{	ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
	double year, month, day, min, ave, max, dep, pre, wind;
	if (fin.fail())
		cout << "Not enough data in the file!\n";
	else
		make_window(700, 500);
		set_caption("Miami, FL, 2003");
		while(!fin.eof())
		{	fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
			dot(month * 31 + day, 250 - ave*5); }
	 fin.close(); }

void main()
{	data(); }
```



3. A good test.

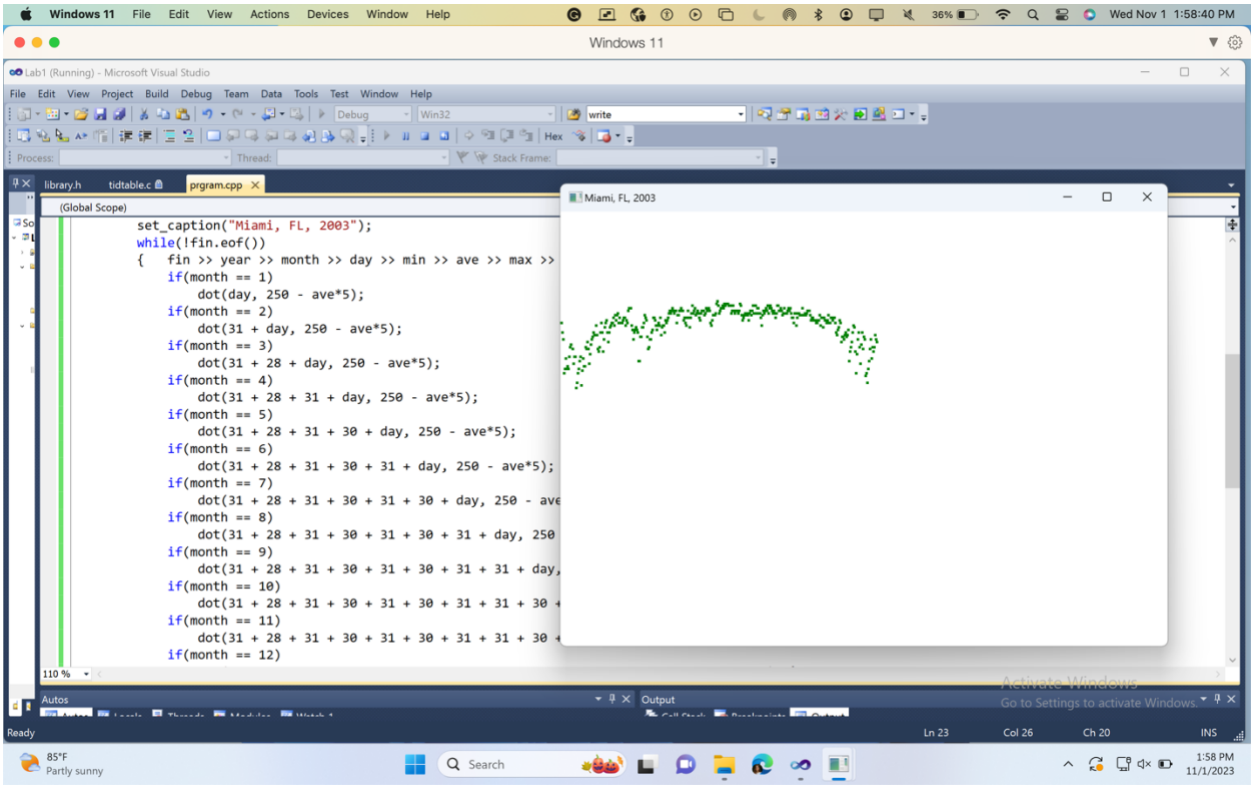
```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void dot(int const x, int const y)
{	set_pen_color(color::dark_green);
	set_pen_width(3);
	draw_point(x,y);}

void data()
{	ifstream fin(open_file_pop_up("", "", ""));
	double year, month, day, min, ave, max, dep, pre, wind;
	if (fin.fail())
		cout << "Not enough data in the file!\n";
	else
		make_window(700, 500);
		set_caption("Miami, FL, 2003");
		while(!fin.eof())
		{	fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
			dot(month * 31 + day, 250 - ave*5); }
	 fin.close(); }

void main()
{	data(); }
```



4. Get the X coordinate right.

```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void dot(int const x, int const y)
{     set_pen_color(color::dark_green);
    set_pen_width(4);
      draw_point(x,y);}

void data()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            make_window(700, 500);
            set_caption("Miami, FL, 2003");
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  if(month == 1)
                        dot(day, 250 - ave*5);
                  if(month == 2)
                        dot(31 + day, 250 - ave*5);
                  if(month == 3)
                        dot(31 + 28 + day, 250 - ave*5);
                  if(month == 4)
                        dot(31 + 28 + 31 + day, 250 - ave*5);
                  if(month == 5)
                        dot(31 + 28 + 31 + 30 + day, 250 - ave*5);
                  if(month == 6)
                        dot(31 + 28 + 31 + 30 + 31 + day, 250 - ave*5);
                  if(month == 7)
                        dot(31 + 28 + 31 + 30 + 31 + 30 + day, 250 - ave*5);
                  if(month == 8)
                        dot(31 + 28 + 31 + 30 + 31 + 30 + 31 + day, 250 -
ave*5);
                  if(month == 9)
                        dot(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day, 250 -
ave*5);
                  if(month == 10)
                        dot(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + day,
250 - ave*5);
                  if(month == 11)
```

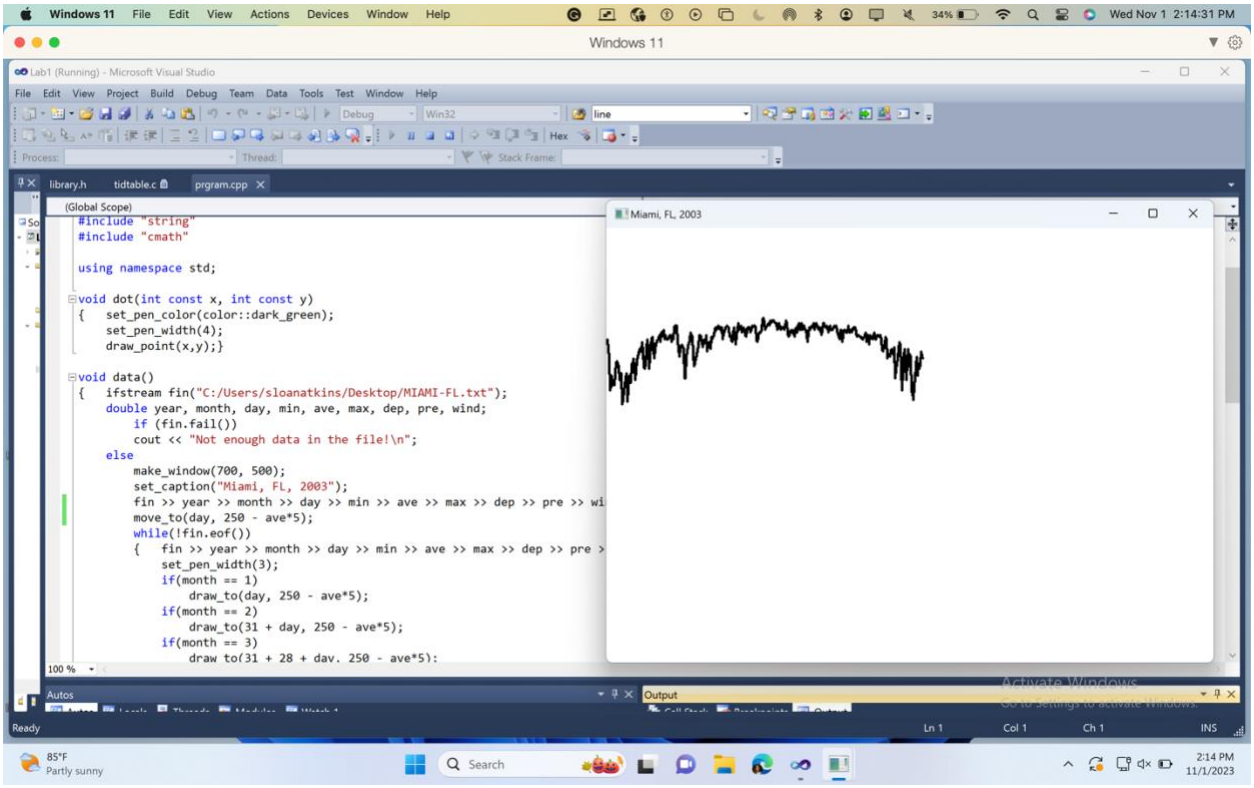
```
                        dot(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31 +
day, 250 - ave*5);
                    if(month == 12)
                        dot(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31 + 30
+ day, 250 - ave*5); }
        fin.close(); }

void main()
{     data(); }
```



5. Less dotiness

```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void dot(int const x, int const y)
{     set_pen_color(color::dark_green);
    set_pen_width(4);
      draw_point(x,y);}

void data()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            make_window(700, 500);
            set_caption("Miami, FL, 2003");
            fin >> year >> month >> day >> min >> ave >> max >> dep >> pre >>
wind;
            move_to(day, 250 - ave*5);
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  set_pen_width(3);
                  if(month == 1)
                        draw_to(day, 250 - ave*5);
                  if(month == 2)
                        draw_to(31 + day, 250 - ave*5);
                  if(month == 3)
                        draw_to(31 + 28 + day, 250 - ave*5);
                  if(month == 4)
                        draw_to(31 + 28 + 31 + day, 250 - ave*5);
                  if(month == 5)
                        draw_to(31 + 28 + 31 + 30 + day, 250 - ave*5);
                  if(month == 6)
                        draw_to(31 + 28 + 31 + 30 + 31 + day, 250 - ave*5);
                  if(month == 7)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + day, 250 - ave*5);
                  if(month == 8)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + day, 250 -
ave*5);
                  if(month == 9)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day, 250
- ave*5);
                  if(month == 10)
```

```
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 +
day, 250 - ave*5);
                if(month == 11)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ day, 250 - ave*5);
                if(month == 12)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ 30 + day, 250 - ave*5); }
        fin.close(); }

void main()
{     data(); }
```

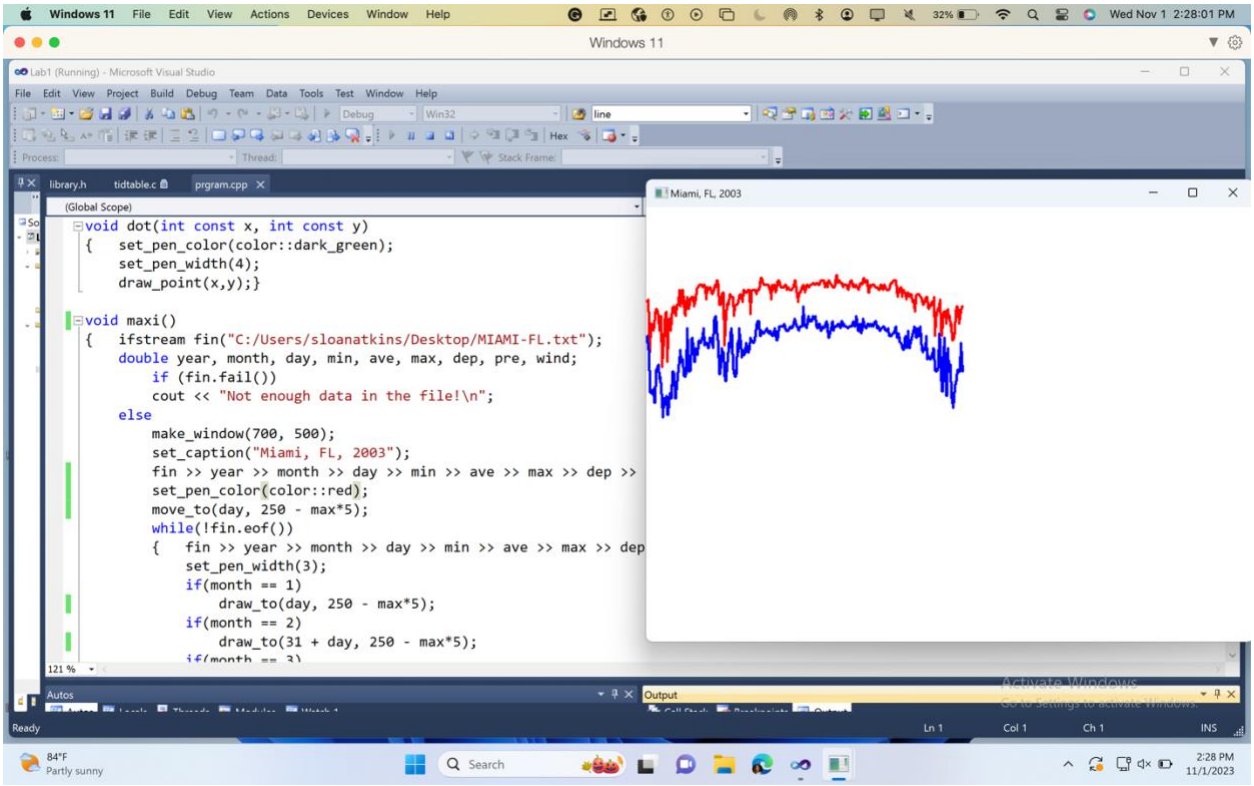


6. More information

```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void dot(int const x, int const y)
{     set_pen_color(color::dark_green);
    set_pen_width(4);
      draw_point(x,y);}

void maxi()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            make_window(700, 500);
            set_caption("Miami, FL, 2003");
            fin >> year >> month >> day >> min >> ave >> max >> dep >> pre >>
wind;
            set_pen_color(color::red);
            move_to(day, 250 - max*5);
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  set_pen_width(3);
                  if(month == 1)
                        draw_to(day, 250 - max*5);
                  if(month == 2)
                        draw_to(31 + day, 250 - max*5);
                  if(month == 3)
                        draw_to(31 + 28 + day, 250 - max*5);
                  if(month == 4)
                        draw_to(31 + 28 + 31 + day, 250 - max*5);
                  if(month == 5)
                        draw_to(31 + 28 + 31 + 30 + day, 250 - max*5);
                  if(month == 6)
                        draw_to(31 + 28 + 31 + 30 + 31 + day, 250 - max*5);
                  if(month == 7)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + day, 250 - max*5);
                  if(month == 8)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + day, 250 -
max*5);
                  if(month == 9)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day, 250
- max*5);
```

```
                  if(month == 10)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 +
day, 250 - max*5);
                  if(month == 11)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ day, 250 - max*5);
                  if(month == 12)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ 30 + day, 250 - max*5); }
       fin.close(); }

void mini()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            set_caption("Miami, FL, 2003");
            fin >> year >> month >> day >> min >> ave >> max >> dep >> pre >>
wind;
            set_pen_color(color::blue);
            move_to(day, 250 - min*5);
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  set_pen_width(3);
                  if(month == 1)
                        draw_to(day, 250 - min*5);
                  if(month == 2)
                        draw_to(31 + day, 250 - min*5);
                  if(month == 3)
                        draw_to(31 + 28 + day, 250 - min*5);
                  if(month == 4)
                        draw_to(31 + 28 + 31 + day, 250 - min*5);
                  if(month == 5)
                        draw_to(31 + 28 + 31 + 30 + day, 250 - min*5);
                  if(month == 6)
                        draw_to(31 + 28 + 31 + 30 + 31 + day, 250 - min*5);
                  if(month == 7)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + day, 250 - min*5);
                  if(month == 8)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + day, 250 -
min*5);
                  if(month == 9)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day, 250
- min*5);
                  if(month == 10)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 +
day, 250 - min*5);
                  if(month == 11)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ day, 250 - min*5);
```

```
                    if(month == 12)
                          draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ 30 + day, 250 - min*5); }
       fin.close(); }

void main()
{      maxi();
       mini();}
```



7. Make it useful

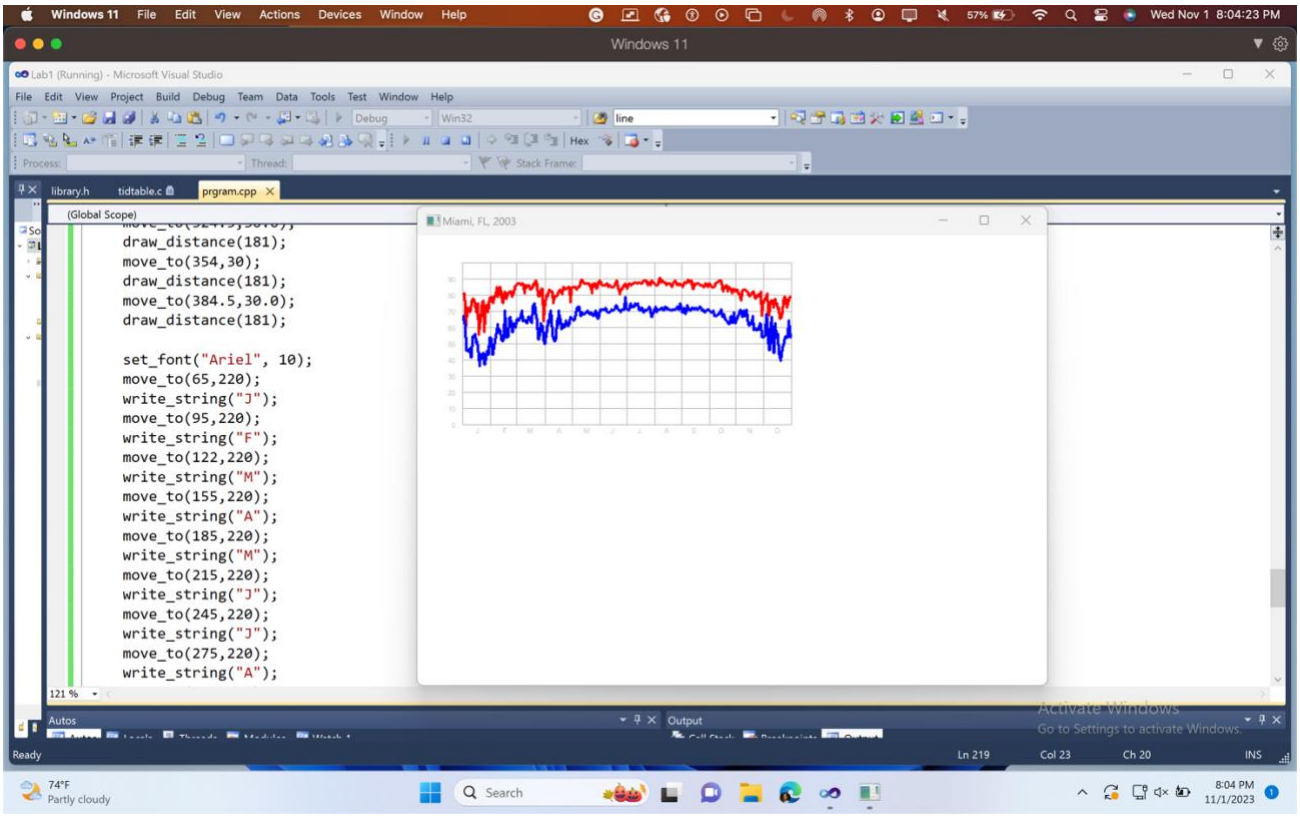
```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void dot(int const x, int const y)
{     set_pen_color(color::dark_green);
    set_pen_width(4);
      draw_point(x,y);}

void maxi()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            set_caption("Miami, FL, 2003");
            fin >> year >> month >> day >> min >> ave >> max >> dep >> pre >>
wind;
            set_pen_color(color::red);
            move_to(day + 50, 150 - max*3);
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  set_pen_width(3);
                  if(month == 1)
                        draw_to(day + 50, 150 - max*3);
                  if(month == 2)
                        draw_to(31 + day + 50, 150 - max*3);
                  if(month == 3)
                        draw_to(31 + 28 + day + 50, 150 - max*3);
                  if(month == 4)
                        draw_to(31 + 28 + 31 + day + 50, 150 - max*3);
                  if(month == 5)
                        draw_to(31 + 28 + 31 + 30 + day + 50, 150 - max*3);
                  if(month == 6)
                        draw_to(31 + 28 + 31 + 30 + 31 + day + 50, 150 - max*3);
                  if(month == 7)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + day + 50, 150 -
max*3);
                  if(month == 8)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + day + 50, 150
- max*3);
                  if(month == 9)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day +
50, 150 - max*3);
```

```
                  if(month == 10)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + day
+ 50, 150 - max*3);
                  if(month == 11)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ day + 50, 150 - max*3);
                  if(month == 12)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ 30 + day + 50, 150 - max*3); }
       fin.close(); }

void mini()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            set_caption("Miami, FL, 2003");
            fin >> year >> month >> day >> min >> ave >> max >> dep >> pre >>
wind;
            set_pen_color(color::blue);
            move_to(day + 50, 150 - min*3);
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  set_pen_width(3);
                  if(month == 1)
                        draw_to(day + 50, 150 - min*3);
                  if(month == 2)
                        draw_to(31 + day + 50, 150 - min*3);
                  if(month == 3)
                        draw_to(31 + 28 + day + 50, 150 - min*3);
                  if(month == 4)
                        draw_to(31 + 28 + 31 + day + 50, 150 - min*3);
                  if(month == 5)
                        draw_to(31 + 28 + 31 + 30 + day + 50, 150 - min*3);
                  if(month == 6)
                        draw_to(31 + 28 + 31 + 30 + 31 + day + 50, 150 - min*3);
                  if(month == 7)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + day + 50, 150 -
min*3);
                  if(month == 8)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + day + 50, 150
- min*3);
                  if(month == 9)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day +
50, 150 - min*3);
                  if(month == 10)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + day
+ 50, 150 - min*3);
                  if(month == 11)
```

```
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ day + 50, 150 - min*3);
                  if(month == 12)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ 30 + day + 50, 150 - min*3); }
       fin.close(); }

void lines()
{      set_pen_color(color::grey);
       set_pen_width(1);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(366);
       turn_right_by_degrees(90);
       draw_distance(181);
       move_to(50,30);
       draw_distance(18);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(36);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(54);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(72);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(90);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(108);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(126);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(144);
```

```
turn_left_by_degrees(90);
draw_distance(366);
move_to(50,30);
turn_right_by_degrees(90);
draw_distance(162);
turn_left_by_degrees(90);
draw_distance(366);
move_to(50,30);
turn_right_by_degrees(90);
draw_distance(180);
turn_left_by_degrees(90);
draw_distance(366);

set_font("Ariel", 10);
move_to(30,34);
write_string("100");
move_to(34,52);
write_string("90");
move_to(34,70);
write_string("80");
move_to(34,88);
write_string("70");
move_to(34,106);
write_string("60");
move_to(34,124);
write_string("50");
move_to(34,142);
write_string("40");
move_to(34,160);
write_string("30");
move_to(34,178);
write_string("20");
move_to(34,196);
write_string("10");
move_to(38,214);
write_string("0");

set_pen_color(color::grey);
set_pen_width(1);
move_to(80.5,30.0);
turn_right_by_degrees(90);
draw_distance(181);
move_to(110,30);
draw_distance(181);
move_to(141.5,30.0);
draw_distance(181);
move_to(172,30);
draw_distance(181);
move_to(202.5,30.0);
draw_distance(181);
move_to(233,30);
draw_distance(181);
```

```
        move_to(263.5,30.0);
        draw_distance(181);
        move_to(294,30);
        draw_distance(181);
        move_to(324.5,30.0);
        draw_distance(181);
        move_to(354,30);
        draw_distance(181);
        move_to(384.5,30.0);
        draw_distance(181);

        set_font("Ariel", 10);
        move_to(65,220);
        write_string("J");
        move_to(95,220);
        write_string("F");
        move_to(122,220);
        write_string("M");
        move_to(155,220);
        write_string("A");
        move_to(185,220);
        write_string("M");
        move_to(215,220);
        write_string("J");
        move_to(245,220);
        write_string("J");
        move_to(275,220);
        write_string("A");
        move_to(305,220);
        write_string("S");
        move_to(335,220);
        write_string("O");
        move_to(367,220);
        write_string("N");
        move_to(398,220);
        write_string("D");
}

void main()
{       make_window(700, 500);
        lines();
        maxi();
        mini(); }
```


Windows 11
Lab1 (Running) - Microsoft Visual Studio
library.h
tidtable.c
prgram.cpp
(Global Scope)
draw_distance(181);
move_to(354,30);
draw_distance(181);
move_to(384.5,30.0);
draw_distance(181);
set_font("Ariel", 10);
move_to(65,220);
write_string("J");
move_to(95,220);
write_string("F");
move_to(122,220);
write_string("M");
move_to(155,220);
write_string("A");
move_to(185,220);
write_string("M");
move_to(215,220);
write_string("J");
move_to(245,220);
write_string("J");
move_to(275,220);
write_string("A");
Miami, FL, 2003
Activate Windows
Go to Settings to activate Windows.
Ready
Ln 219
Col 23
Ch 20
INS
74°F
Partly cloudy
Search
8:04 PM
11/1/2023

8. Last thing before you go

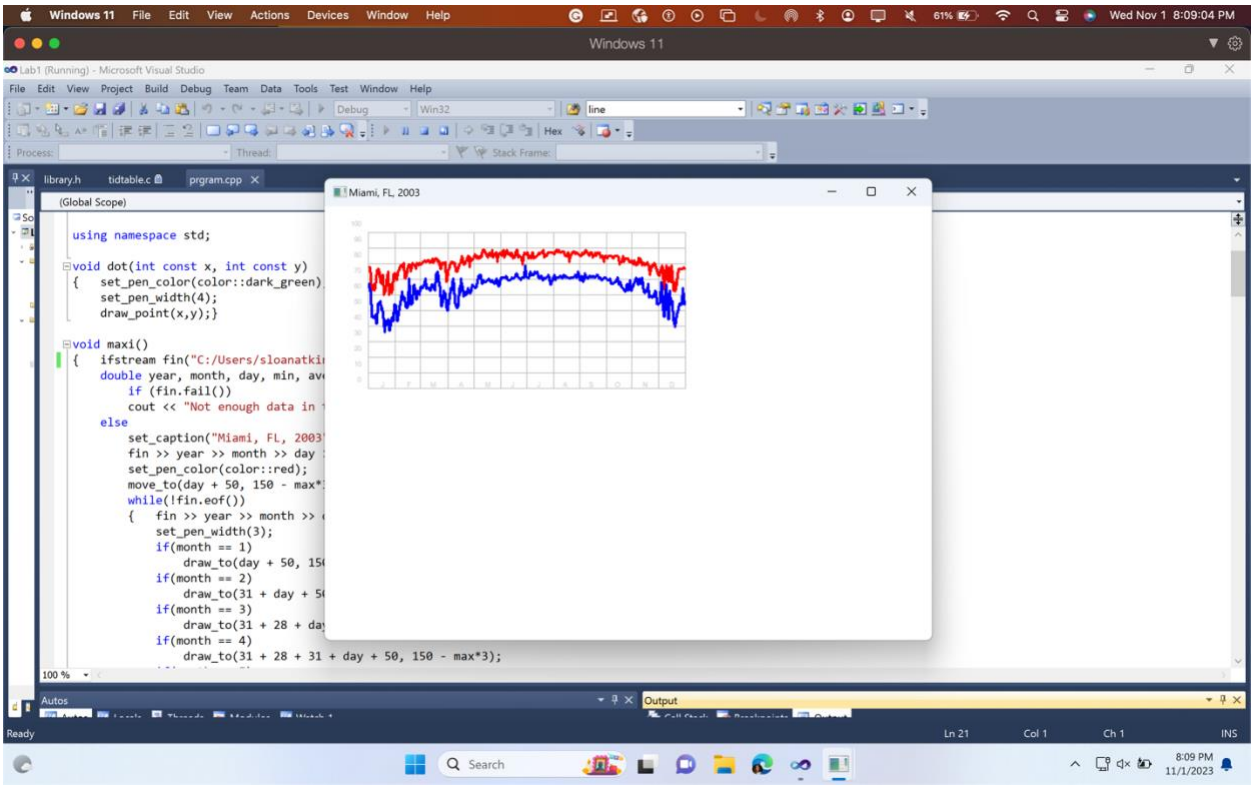
```
#include "library.h"
#include "iostream"
#include "fstream"
#include "iomanip"
#include "string"
#include "cmath"

using namespace std;

void dot(int const x, int const y)
{     set_pen_color(color::dark_green);
    set_pen_width(4);
      draw_point(x,y);}

void maxi()
{     ifstream fin("C:/Users/sloanatkins/Desktop/KEY-WEST-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            set_caption("Miami, FL, 2003");
            fin >> year >> month >> day >> min >> ave >> max >> dep >> pre >>
wind;
            set_pen_color(color::red);
            move_to(day + 50, 150 - max*3);
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  set_pen_width(3);
                  if(month == 1)
                        draw_to(day + 50, 150 - max*3);
                  if(month == 2)
                        draw_to(31 + day + 50, 150 - max*3);
                  if(month == 3)
                        draw_to(31 + 28 + day + 50, 150 - max*3);
                  if(month == 4)
                        draw_to(31 + 28 + 31 + day + 50, 150 - max*3);
                  if(month == 5)
                        draw_to(31 + 28 + 31 + 30 + day + 50, 150 - max*3);
                  if(month == 6)
                        draw_to(31 + 28 + 31 + 30 + 31 + day + 50, 150 - max*3);
                  if(month == 7)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + day + 50, 150 -
max*3);
                  if(month == 8)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + day + 50, 150
- max*3);
                  if(month == 9)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day +
50, 150 - max*3);
```

```
                  if(month == 10)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + day
+ 50, 150 - max*3);
                  if(month == 11)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ day + 50, 150 - max*3);
                  if(month == 12)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ 30 + day + 50, 150 - max*3); }
       fin.close(); }

void mini()
{     ifstream fin("C:/Users/sloanatkins/Desktop/MIAMI-FL.txt");
      double year, month, day, min, ave, max, dep, pre, wind;
      if (fin.fail())
            cout << "Not enough data in the file!\n";
      else
            set_caption("Miami, FL, 2003");
            fin >> year >> month >> day >> min >> ave >> max >> dep >> pre >>
wind;
            set_pen_color(color::blue);
            move_to(day + 50, 150 - min*3);
            while(!fin.eof())
            {     fin >> year >> month >> day >> min >> ave >> max >> dep >> pre
>> wind;
                  set_pen_width(3);
                  if(month == 1)
                        draw_to(day + 50, 150 - min*3);
                  if(month == 2)
                        draw_to(31 + day + 50, 150 - min*3);
                  if(month == 3)
                        draw_to(31 + 28 + day + 50, 150 - min*3);
                  if(month == 4)
                        draw_to(31 + 28 + 31 + day + 50, 150 - min*3);
                  if(month == 5)
                        draw_to(31 + 28 + 31 + 30 + day + 50, 150 - min*3);
                  if(month == 6)
                        draw_to(31 + 28 + 31 + 30 + 31 + day + 50, 150 - min*3);
                  if(month == 7)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + day + 50, 150 -
min*3);
                  if(month == 8)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + day + 50, 150
- min*3);
                  if(month == 9)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + day +
50, 150 - min*3);
                  if(month == 10)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + day
+ 50, 150 - min*3);
                  if(month == 11)
```

```
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ day + 50, 150 - min*3);
                  if(month == 12)
                        draw_to(31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31
+ 30 + day + 50, 150 - min*3); }
       fin.close(); }

void lines()
{      set_pen_color(color::grey);
       set_pen_width(1);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(366);
       turn_right_by_degrees(90);
       draw_distance(181);
       move_to(50,30);
       draw_distance(18);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(36);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(54);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(72);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(90);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(108);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(126);
       turn_left_by_degrees(90);
       draw_distance(366);
       move_to(50,30);
       turn_right_by_degrees(90);
       draw_distance(144);
```

```
turn_left_by_degrees(90);
draw_distance(366);
move_to(50,30);
turn_right_by_degrees(90);
draw_distance(162);
turn_left_by_degrees(90);
draw_distance(366);
move_to(50,30);
turn_right_by_degrees(90);
draw_distance(180);
turn_left_by_degrees(90);
draw_distance(366);

set_font("Ariel", 10);
move_to(30,34);
write_string("100");
move_to(34,52);
write_string("90");
move_to(34,70);
write_string("80");
move_to(34,88);
write_string("70");
move_to(34,106);
write_string("60");
move_to(34,124);
write_string("50");
move_to(34,142);
write_string("40");
move_to(34,160);
write_string("30");
move_to(34,178);
write_string("20");
move_to(34,196);
write_string("10");
move_to(38,214);
write_string("0");

set_pen_color(color::grey);
set_pen_width(1);
move_to(80.5,30.0);
turn_right_by_degrees(90);
draw_distance(181);
move_to(110,30);
draw_distance(181);
move_to(141.5,30.0);
draw_distance(181);
move_to(172,30);
draw_distance(181);
move_to(202.5,30.0);
draw_distance(181);
move_to(233,30);
draw_distance(181);
```

```
        move_to(263.5,30.0);
        draw_distance(181);
        move_to(294,30);
        draw_distance(181);
        move_to(324.5,30.0);
        draw_distance(181);
        move_to(354,30);
        draw_distance(181);
        move_to(384.5,30.0);
        draw_distance(181);

        set_font("Ariel", 10);
        move_to(65,220);
        write_string("J");
        move_to(95,220);
        write_string("F");
        move_to(122,220);
        write_string("M");
        move_to(155,220);
        write_string("A");
        move_to(185,220);
        write_string("M");
        move_to(215,220);
        write_string("J");
        move_to(245,220);
        write_string("J");
        move_to(275,220);
        write_string("A");
        move_to(305,220);
        write_string("S");
        move_to(335,220);
        write_string("O");
        move_to(367,220);
        write_string("N");
        move_to(398,220);
        write_string("D");
}

void main()
{       make_window(700, 500);
        lines();
        maxi();
        mini(); }
```


Windows 11
Lab1 (Running) - Microsoft Visual Studio
library.h
tidtable.c
prgram.cpp
(Global Scope)
using namespace std;
void dot(int const x, int const y)
{ set_pen_color(color::dark_green)
set_pen_width(4);
draw_point(x,y);}
void max1()
{ ifstream fin("C:/Users/sloanatki
double year, month, day, min, av
if (fin.fail())
cout << "Not enough data in
else
set_caption("Miami, FL, 2003
fin >> year >> month >> day
set_pen_color(color::red);
move_to(day + 50, 150 - max*
while(!fin.eof())
{ fin >> year >> month >>
set_pen_width(3);
if(month == 1)
draw_to(day + 50, 15
if(month == 2)
draw_to(31 + day + 5
if(month == 3)
draw_to(31 + 28 + da
if(month == 4)
draw_to(31 + 28 + 31 + day + 50, 150 - max*3);
Miami, FL, 2003
Autos
Output
Ready
Ln 21
Col 1
Ch 1
INS
Search
8:09 PM
11/1/2023