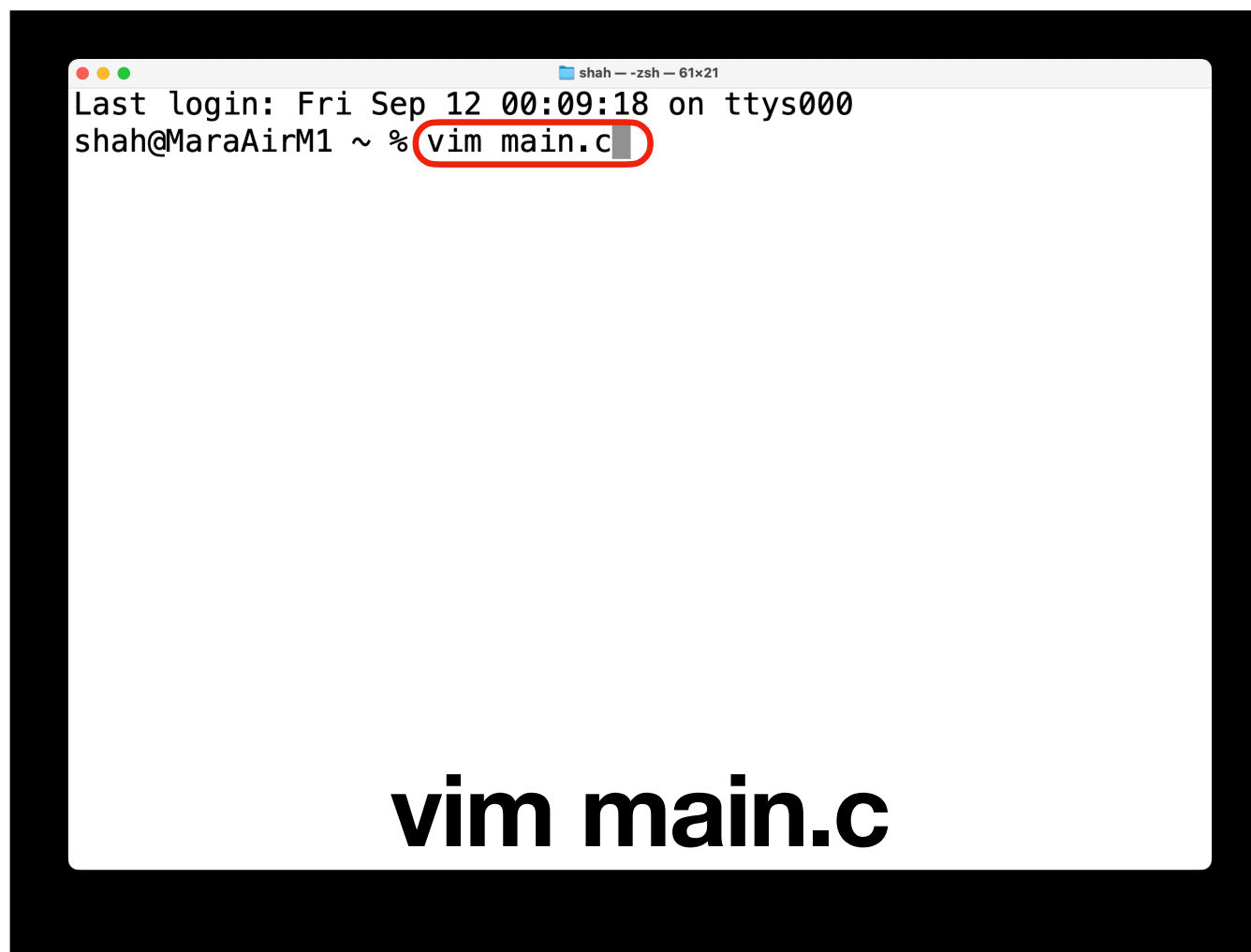


# Piscine C 00

00 First C program

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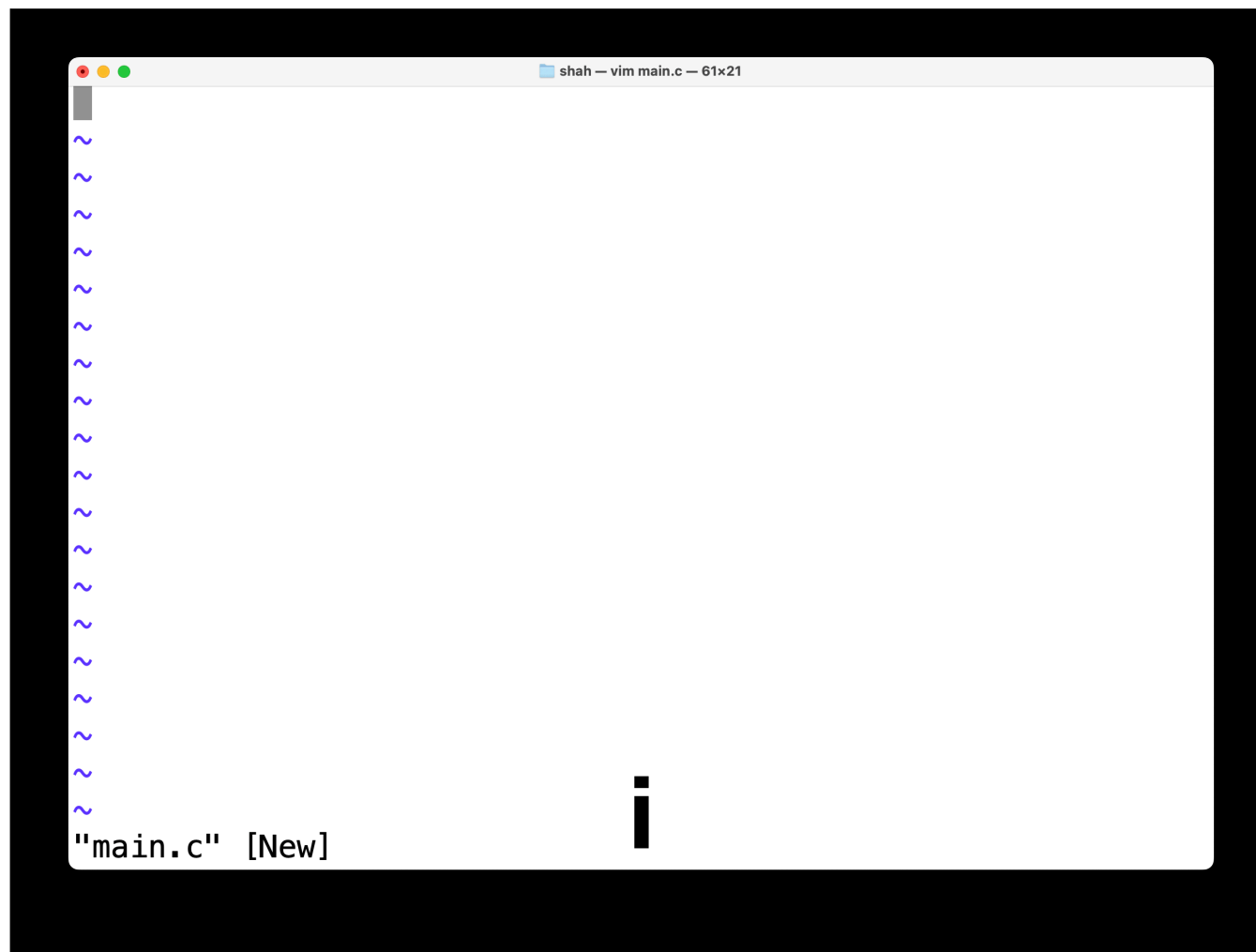
This is a brief guide on how to create and run a simple C program.

A terminal window with a title bar that reads 'shah - zsh - 61x21'. The terminal shows the output of a login: 'Last login: Fri Sep 12 00:09:18 on ttys000'. Below this, the prompt 'shah@MaraAirM1 ~ %' is followed by the command 'vim main.c', which is highlighted with a red circle. The rest of the terminal area is empty, with the text 'vim main.c' centered at the bottom in a large, bold font.

```
shah - zsh - 61x21
Last login: Fri Sep 12 00:09:18 on ttys000
shah@MaraAirM1 ~ % vim main.c
```

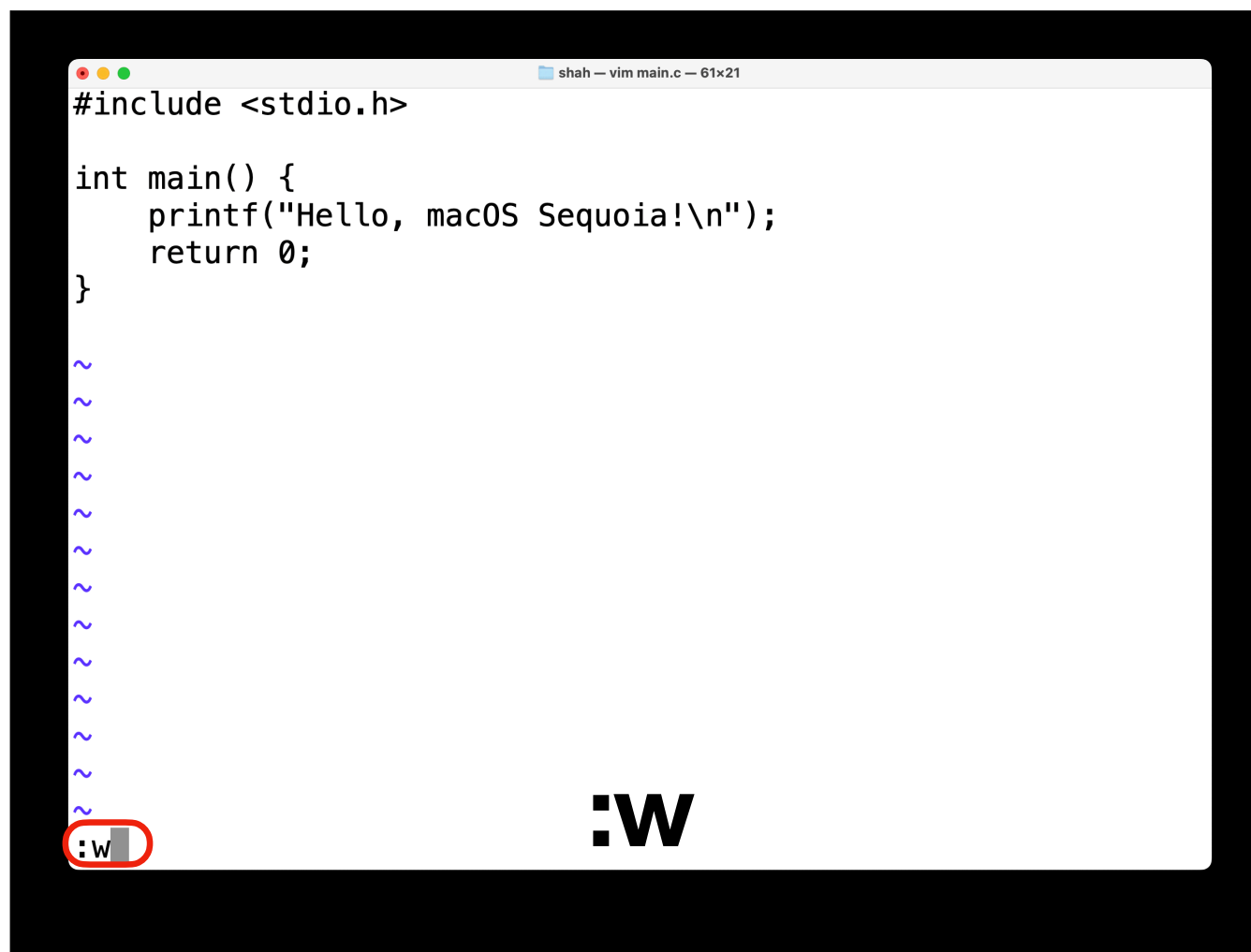
**vim main.c**

Open Terminal and type vim followed by the name of the file, main.c. This will create the main.c file.



Type i to change to Insert mode so you can enter text into the file.





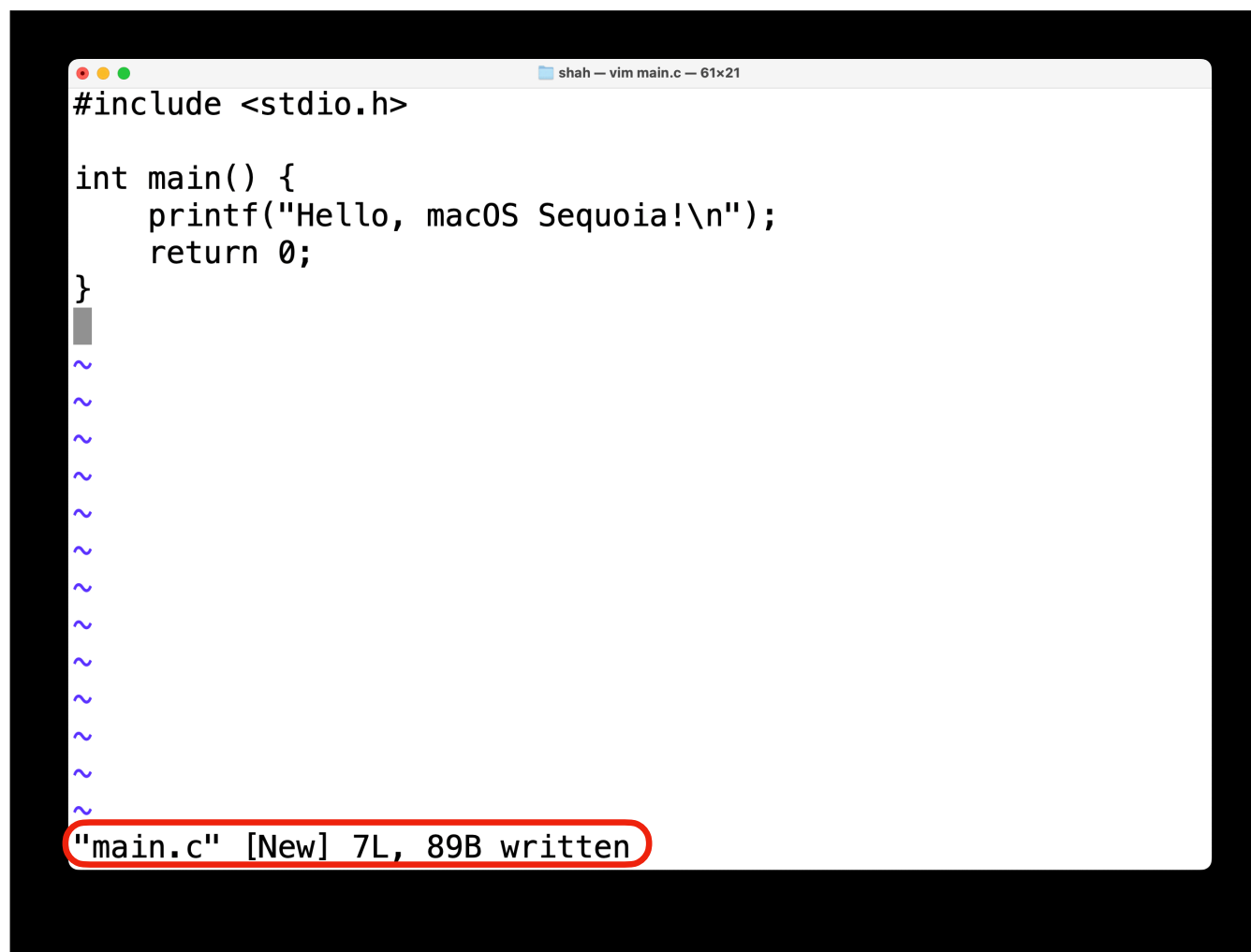
The image shows a Vim editor window with a title bar that reads "shah — vim main.c — 61x21". The editor contains the following C code:

```
#include <stdio.h>

int main() {
    printf("Hello, macOS Sequoia!\n");
    return 0;
}
```

Below the code, there are several lines of tilde (~) characters. At the bottom left, the command `:w` is being entered, with the `:` character circled in red. To the right of this, the command `:W` is displayed in a large font.

To save, type :w in Command mode.



The image shows a terminal window with a vim editor. The editor's title bar reads "shah — vim main.c — 61x21". The code in the editor is a simple C program that prints "Hello, macOS Sequoia!\n". The code is as follows:

```
#include <stdio.h>

int main() {
    printf("Hello, macOS Sequoia!\n");
    return 0;
}
```

Below the code, there are several tilde (~) characters, likely representing a buffer or a list of changes. At the bottom of the editor, a status line is highlighted with a red border, displaying the message: "main.c" [New] 7L, 89B written.

File has been saved.

The image shows a terminal window with a Vim editor. The editor's title bar reads "shah — vim main.c — 61x21". The code in the editor is a simple C program:

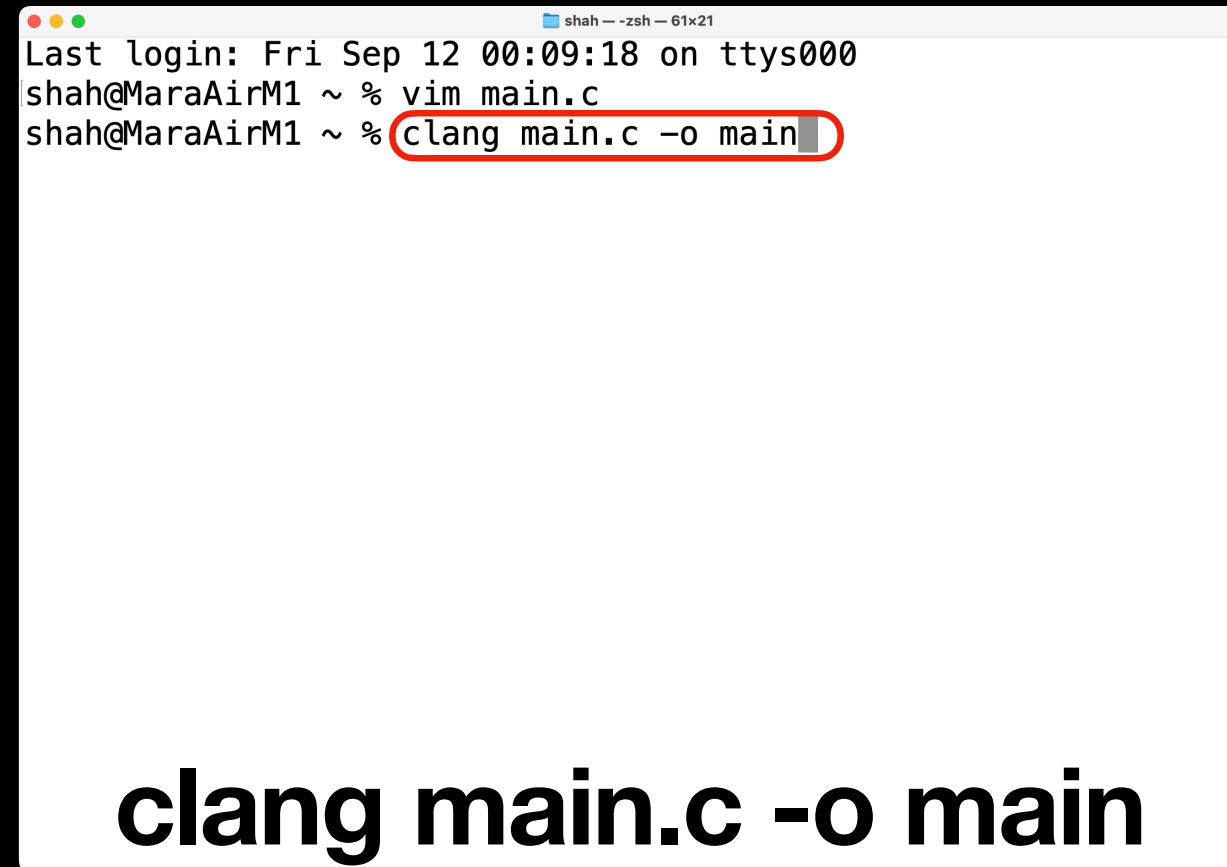
```
#include <stdio.h>

int main() {
    printf("Hello, macOS Sequoia!\n");
    return 0;
}
```

Below the code, there are several lines of tilde (~) characters, indicating that the file has been modified and is not yet saved. At the bottom left of the editor, the command `:q` is entered and highlighted with a red circle. To the right of this, the command `:q` is displayed in a large font.

To quit, type :q.

Note: You can type :wq to write and save a file.



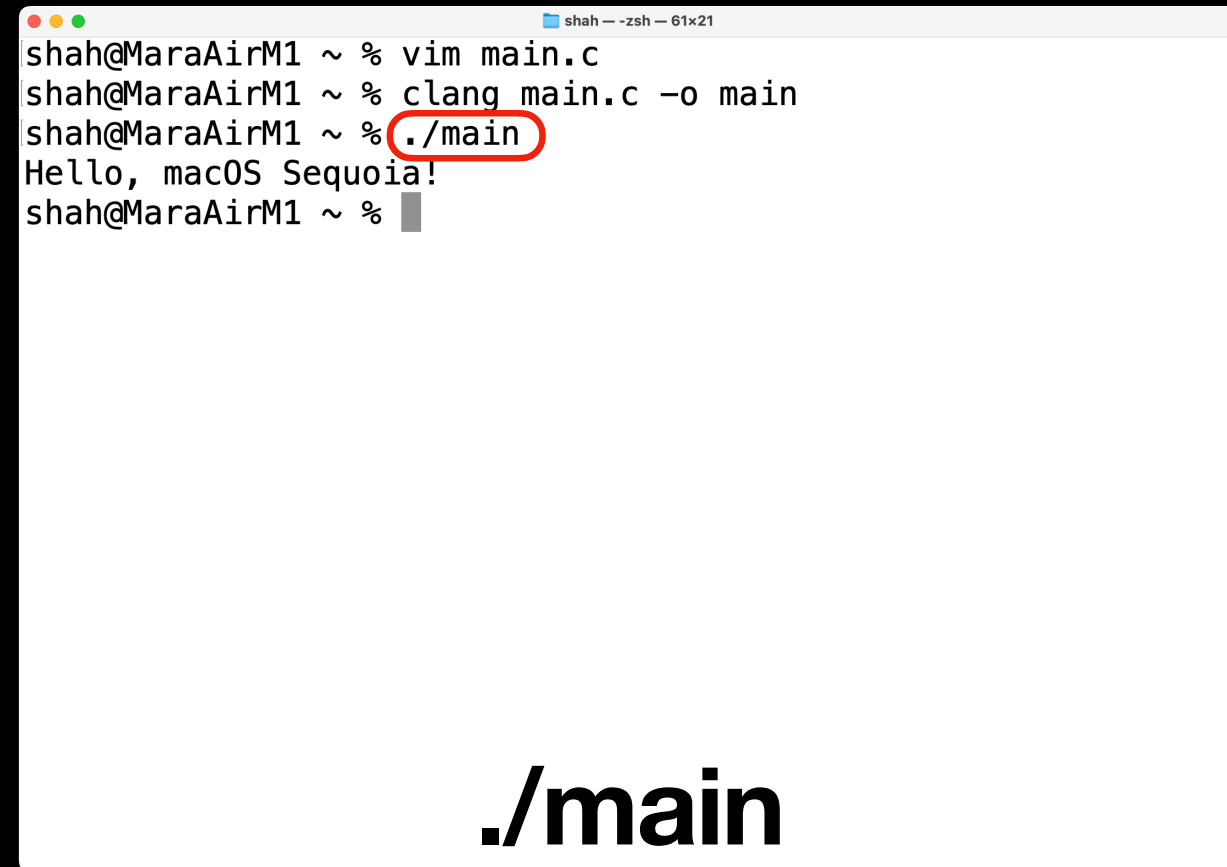
A terminal window titled "shah - zsh - 61x21" showing the following commands and output:

```
Last login: Fri Sep 12 00:09:18 on ttys000
shah@MaraAirM1 ~ % vim main.c
shah@MaraAirM1 ~ % clang main.c -o main
```

The command `clang main.c -o main` is highlighted with a red circle. Below the terminal window, the command `clang main.c -o main` is displayed in large, bold, black text.

To compile your program into an executable file, type `clang main.c -o main`. You can also use `gcc` instead of `clang`.



A terminal window titled 'shah - zsh - 61x21' is shown. It contains the following text: 'shah@MaraAirM1 ~ % vim main.c', 'shah@MaraAirM1 ~ % clang main.c -o main', 'shah@MaraAirM1 ~ % ./main' (where './main' is circled in red), and 'Hello, macOS Sequoia!'. Below the terminal window, the text './main' is displayed in a large, bold font.

```
shah@MaraAirM1 ~ % vim main.c
shah@MaraAirM1 ~ % clang main.c -o main
shah@MaraAirM1 ~ % ./main
Hello, macOS Sequoia!
shah@MaraAirM1 ~ %
```

**./main**

To run your program, type the path and name of the program.  
Congratulations! You have written and run your first C program.