

Installing and running Lua

These programs were developed on windows 11 and are intended to be run on a windows machine. NOT iOS or Linux.

1. <https://luabinaries.sourceforge.net/download.html>
2. Download either lua-5.4.2_win32 or win64 based on your system
3. extract the files into a folder of your choosing (recommended that this folder is named 'lua' and is located in your C: drive in the lowest directory.

example file path: 'C:\lua'

4. open settings
5. search 'edit the system environment variables' and open
6. click 'environment variables'
7. edit 'path' in the 'system variables' window
8. click new
9. type in the file path of the folder you unzipped the lua folder into (if you've followed our instructions, copy/paste in the example file path on instruction 3.)
10. Click ok
11. Exit settings menus
12. Open command prompt
13. Type in 'lua54' and hit enter
14. You are now running lua5.4 on your computer.
15. You can now close this command prompt.

If you are not running lua54 and you've received an error message, you have done something wrong. Please review the previous steps in their entirety.

Running Programs

SETUP

1. Download and unzip our Lua_Group_Project folder into a folder of your choosing
2. Move the programs into a folder of your choosing as well
3. These instructions will assume the programs are in this directory

C:\Users\user\Documents\luaproject

^ note that user will be whatever your particular username is

4. Open a command prompt if you do not have one already open and type in 'cd C:\Users\user\Documents\luaproject'

REMEMBER TO CHANGE user TO YOUR USERNAME BEFORE HITTING ENTER

INSTRUCTIONS

Running Program 1

1. In the command prompt, type 'lua54 program1.lua' and hit enter
2. You should now see 'Hello World' on the screen.

```
PS C:\Users\trevo> cd C:\Users\trevo\Documents\luaproject
PS C:\Users\trevo\Documents\luaproject> lua54 program1.lua
Hello World
PS C:\Users\trevo\Documents\luaproject> |
```

Running Program 2

1. In the command prompt, type 'lua54 program2.lua' and hit enter
2. You should now see our banking programs menu on the screen.

```
PS C:\Users\trevo\Documents\luaproject> lua54 program2.lua

Enter Credentials
*****
1. Login to account:
2. Create account
3. Exit program
Select a Menu Option: > |
```

Running Program 3

1. In the command prompt, type 'lua54 program3.lua <filename>' and hit enter
2. You should now see our weather calculation program's output on the screen.

We have provided 1 sample text file for this program titled 'program3.txt' that can be inserted into the <filename> token.

```
PS C:\Users\trevo\Documents\luaproject> lua54 program3.lua program3.txt
Time Interval: 1/1/2021-12/31/2022
Mean:45.63
Median:44.00
Mode:74.00
Range:-9.00-105.00
PS C:\Users\trevo\Documents\luaproject> |
```

Running Program 4

1. In the command prompt, type 'lua54 program4.lua <filename>' and hit enter
2. You should now see our stack parsing program's output on the screen.

We have provided 4 sample texts file for this program titled 'balanced.txt', 'unbalanced.txt', 'balanced2.txt', and 'unbalanced2.txt' that can be inserted into the <filename> token.

```
PS C:\Users\trevo\Documents\luaproject> lua54 program4.lua balanced.txt
File is balanced
PS C:\Users\trevo\Documents\luaproject> lua54 program4.lua unbalanced.txt
The file is not balanced
Error occured at line: 2
PS C:\Users\trevo\Documents\luaproject> lua54 program4.lua balanced2.txt
File is balanced
PS C:\Users\trevo\Documents\luaproject> lua54 program4.lua unbalanced2.txt
The file is not balanced
Error occured at line: 3
PS C:\Users\trevo\Documents\luaproject> |
```