Hello_World
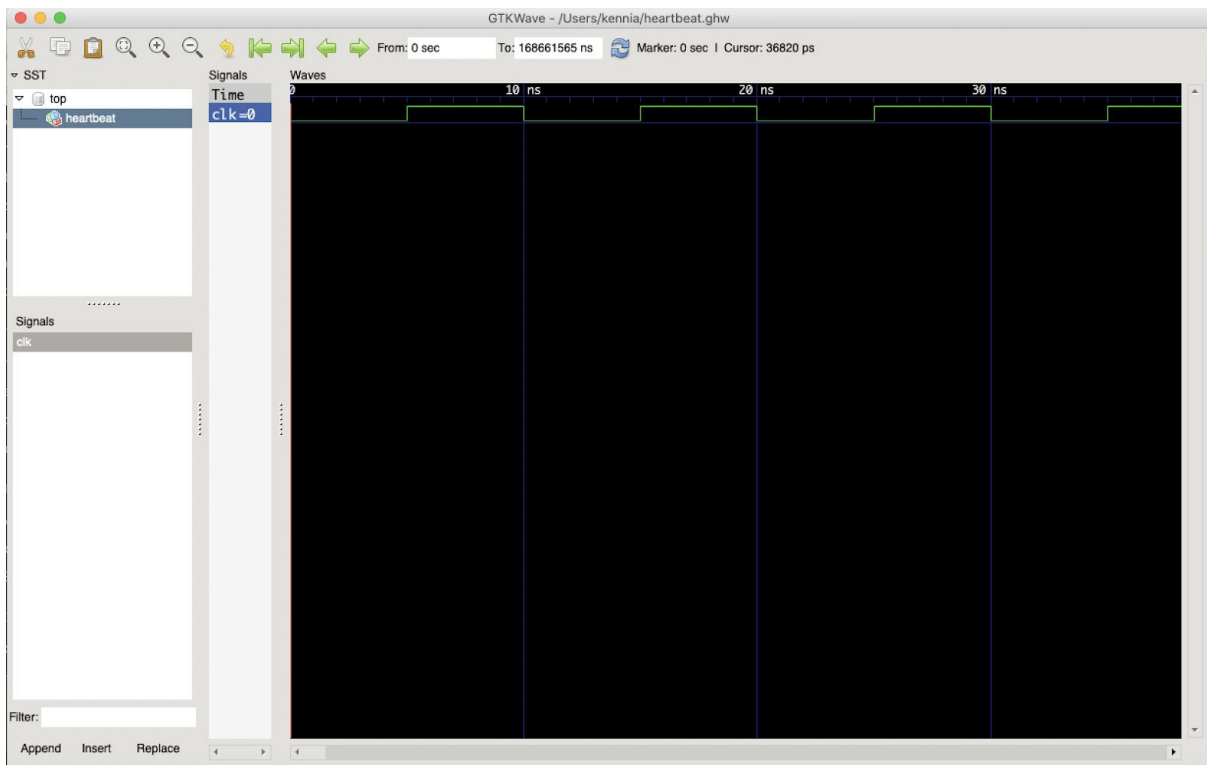
```
HelloWorld.vhdl          Public
MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -a HelloWorld.vhdl
MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e HelloWorld.vhdl
[ghdl:error: bad unit name 'HelloWorld.vhdl'                                    ]
[ghdl:error: (a unit name is required instead of a filename)                    ]
MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e HelloWorld
error: cannot find entity or configuration helloworld
[ghdl:error: compilation error                                                 ]
MacBook-Pro-de-Kennia-8:~ kennia$ clear

[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -a HelloWorld.vhdl                      ]
MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e hello_world
[xcrun: error: invalid active developer path (/Library/Developer/CommandLineTools), miss]
[ing xcrun at: /Library/Developer/CommandLineTools/usr/bin/xcrun               ]
ghdl:error: compilation error
MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e hello_world
xcrun: error: invalid active developer path (/Library/Developer/CommandLineTools), miss
[ing xcrun at: /Library/Developer/CommandLineTools/usr/bin/xcrun               ]
ghdl:error: compilation error
[MacBook-Pro-de-Kennia-8:~ kennia$ sudo xcode-select --install                 ]
[Password:                                                                     ]
xcode-select: note: install requested for command line developer tools
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e hello_world                         ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -r hello_world                         ]
Hello world!
MacBook-Pro-de-Kennia-8:~ kennia$ ▊
```

Heartbeat

```
ghdl:error: compilation error
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -a heartbeat.vhdl                      ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e heartbeat                           ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -r hearbeat                            ]
ghdl:error: file 'hearbeat' does not exist
ghdl:error: Please elaborate your design.
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -r heartbeat                           ]
--stop-time=<10ns>
^C
[MacBook-Pro-de-Kennia-8:~ kennia$                                             ]
[MacBook-Pro-de-Kennia-8:~ kennia$                                             ]
[MacBook-Pro-de-Kennia-8:~ kennia$                                             ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ls                                          ]
Applications          Movies                heartbeat.o
Desktop               Music                 heartbeat.vhdl
Documents             Pictures              hello_world
Downloads             Public                iCloud Drive (archivo)
HelloWorld.o          e~heartbeat.o         venv
HelloWorld.vhdl       e~hello_world.o       venv2
Library               heartbeat             work-obj93.cf
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -r heartbeat --wave=heartbeat.ghw     ]
--stop-time=10ns
^C
[MacBook-Pro-de-Kennia-8:~ kennia$ ls                                          ]
```

Full Adder


```
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -a adder.vhdl                        ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e adder.vhdl                        ]
 ghdl:error: bad unit name 'adder.vhdl'
 ghdl:error: (a unit name is required instead of a filename)
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e adder                            ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -r adder                            ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -a adder_tb.vhdl                     ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -e adder_tb                          ]
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -r adder_tb                          ]
 adder_tb.vhdl:52:5:@8ns:(assertion note): end of test
[MacBook-Pro-de-Kennia-8:~ kennia$ ghdl -r adder_tb --wave=adder_tb.ghw      ]
 adder_tb.vhdl:52:5:@8ns:(assertion note): end of test
[MacBook-Pro-de-Kennia-8:~ kennia$ gtkwave adder_tb.ghw                      ]
 -bash: gtkwave: command not found
MacBook-Pro-de-Kennia-8:~ kennia$ 
```