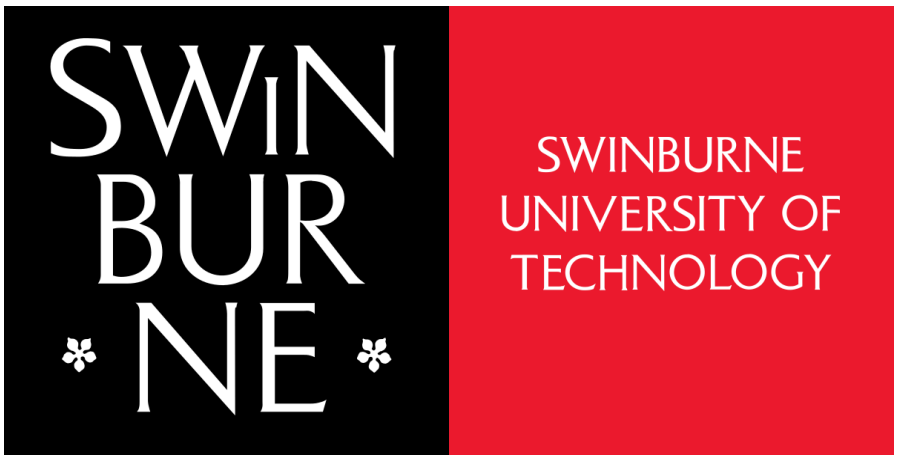


Swinburne University of Technology

Ho Chi Minh Campus

COS10004

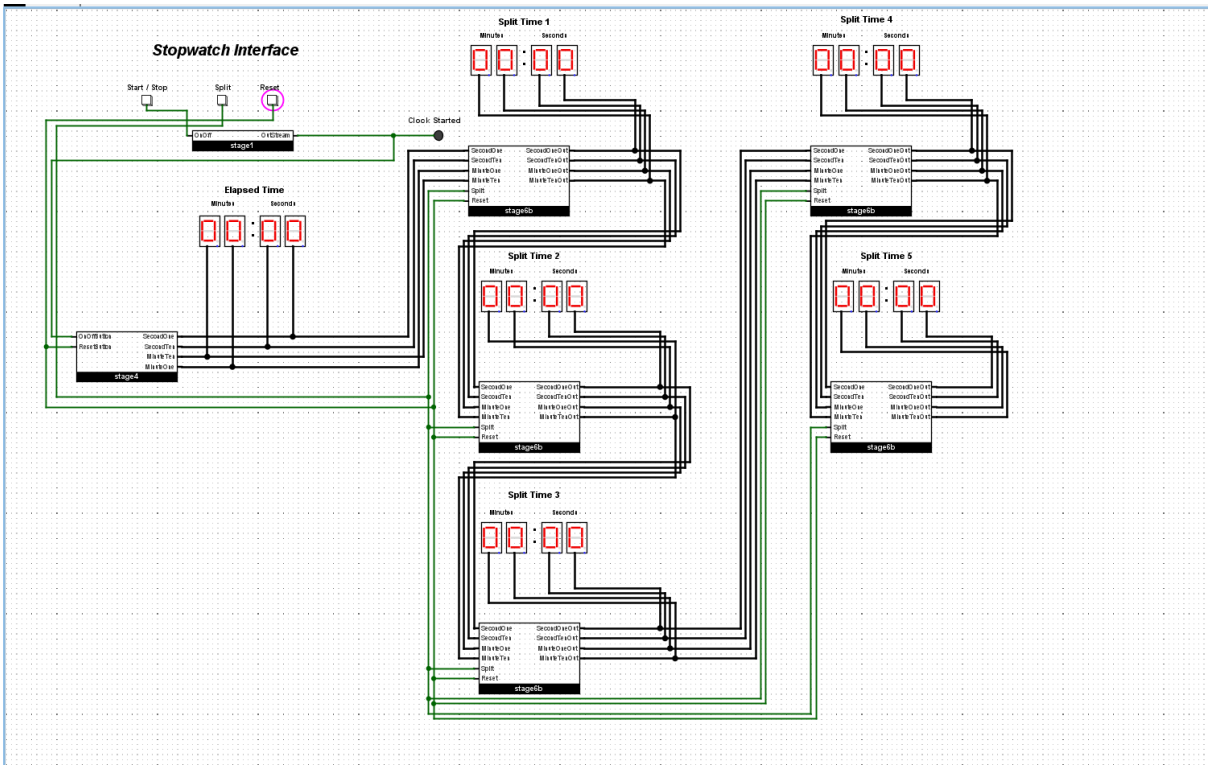
Computer System

Student Name: Lau Ngoc Quyen
Student ID: 104198996

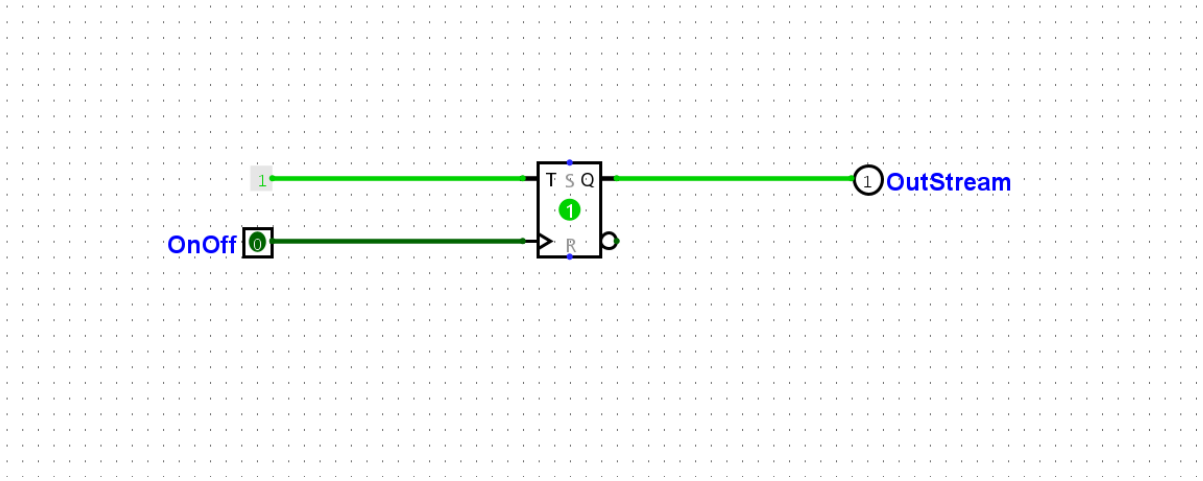
Assignment 1 - Stop Watch

Link to video demonstrating:
Github: https://github.com/quynezz/COS10004
Youtube: https://www.youtube.com/watch?v=T77lJbmTtZQ

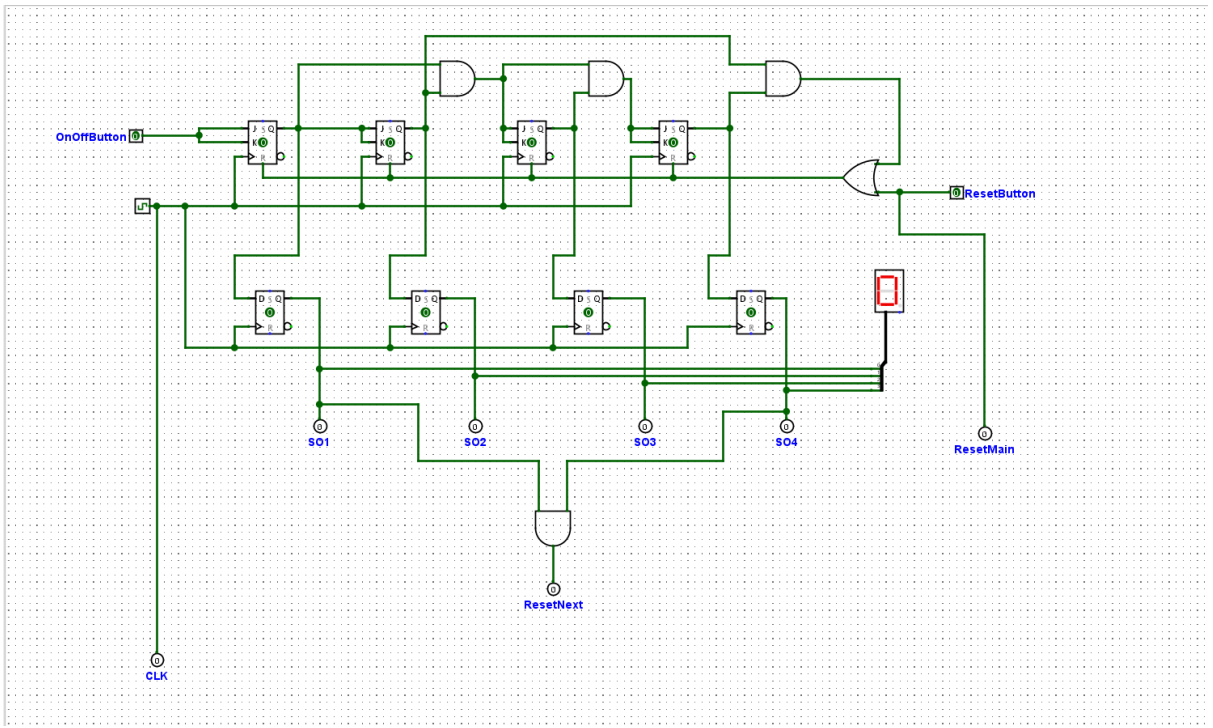
Main Circuit:



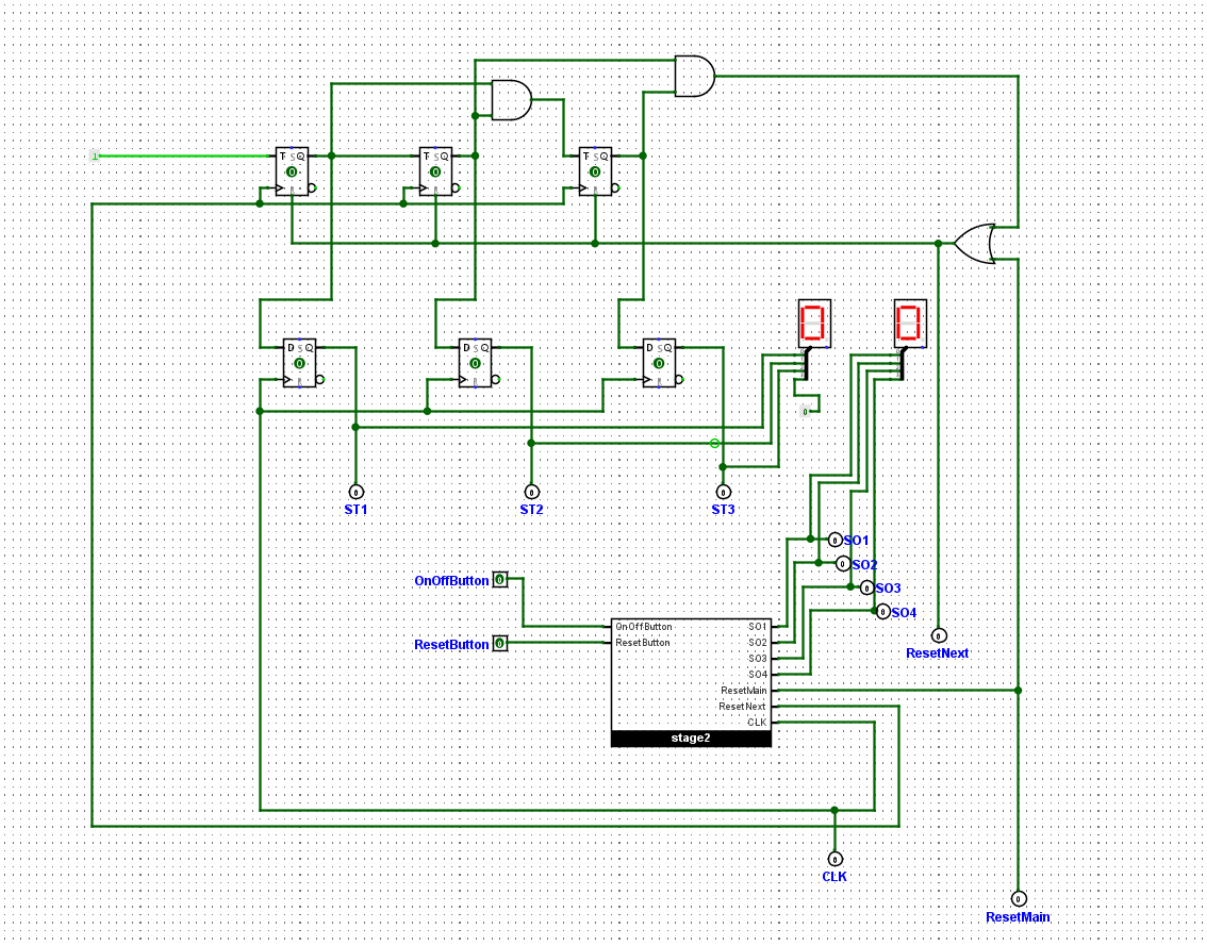
Stage 1:



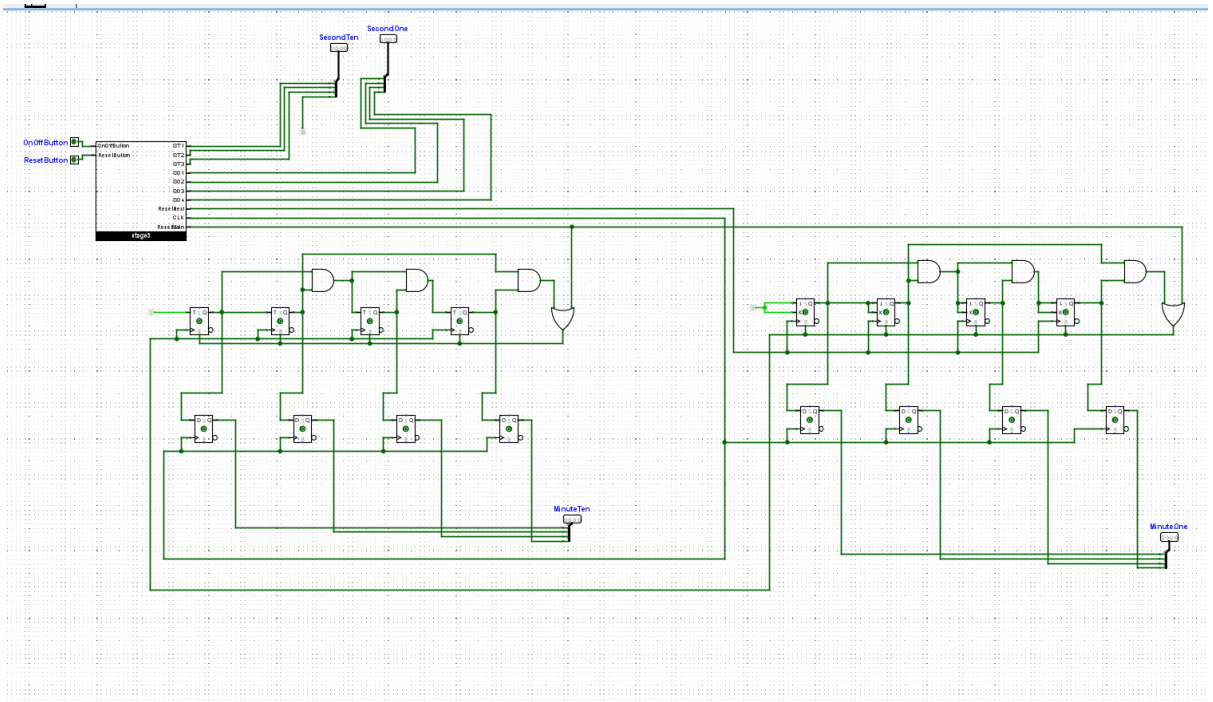
Stage 2:


OnOffButton
ResetButton
SO1
SO2
SO3
SO4
ResetMain
ResetNext
CLK

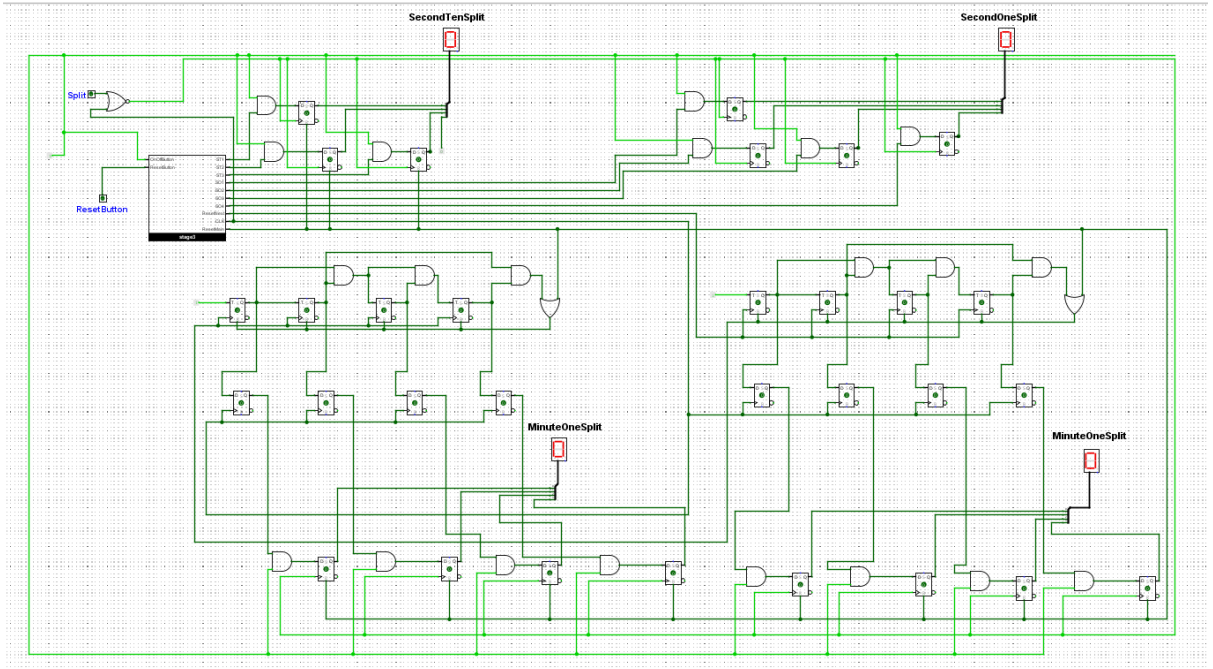
Stage 3:


ST1
ST2
ST3
SO1
SO2
SO3
SO4
ResetNext
OnOffButton
ResetButton
OnOffButton
ResetButton
SO1
SO2
SO3
SO4
ResetMain
ResetNext
CLK
stage2
CLK
ResetMain

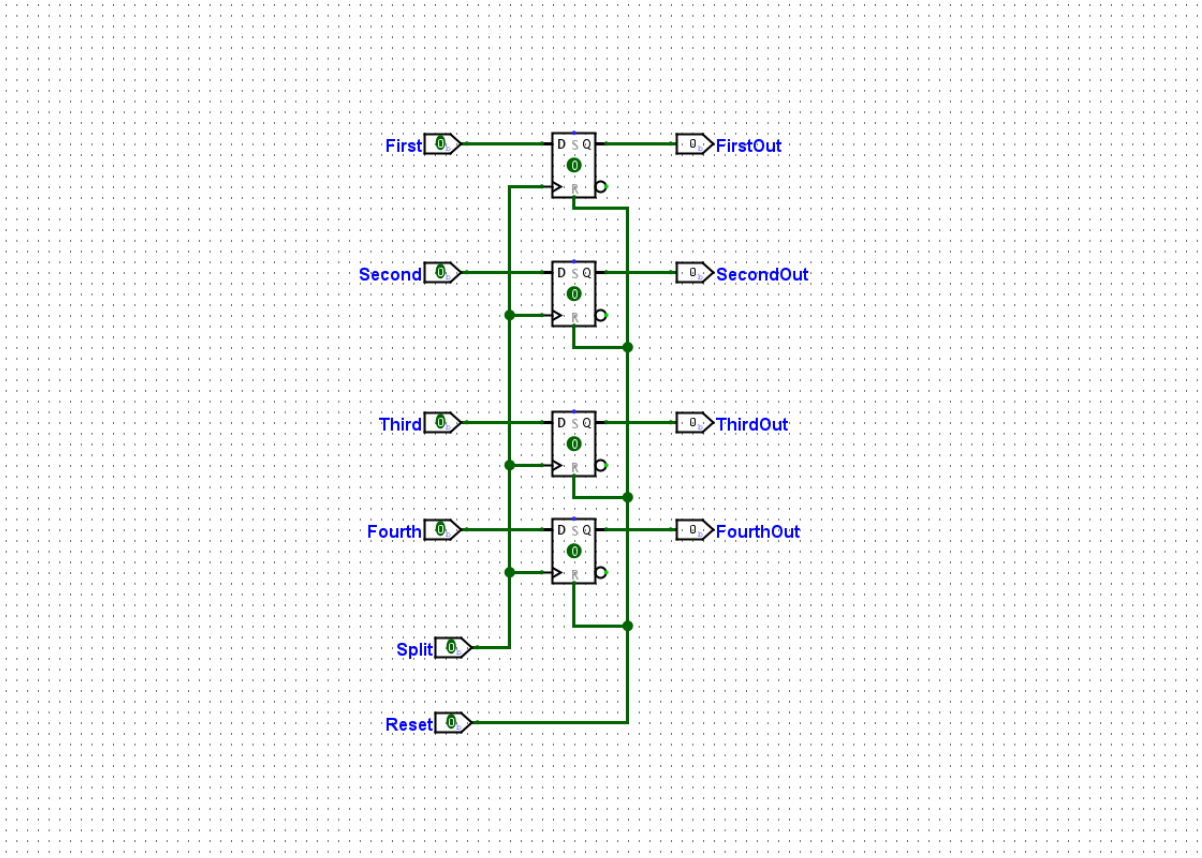
Stage 4:



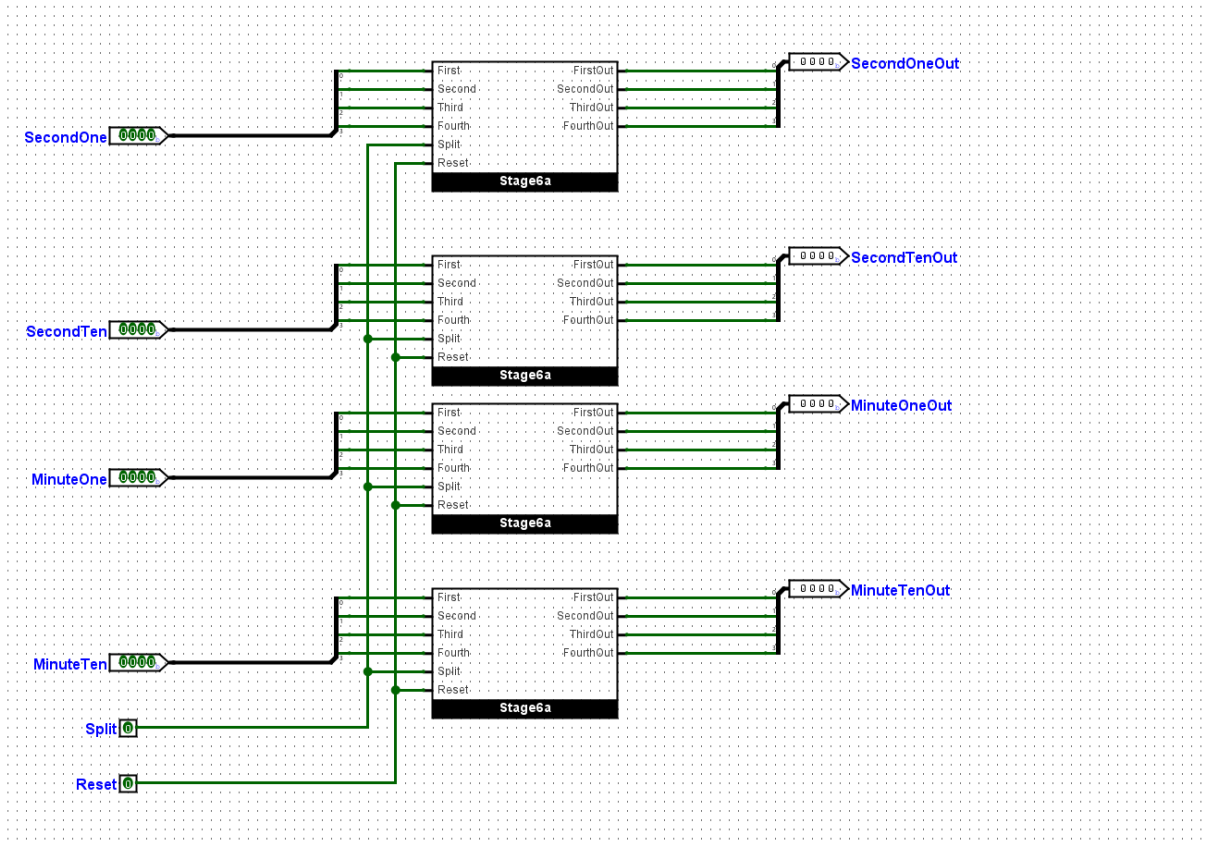
Stage 5:



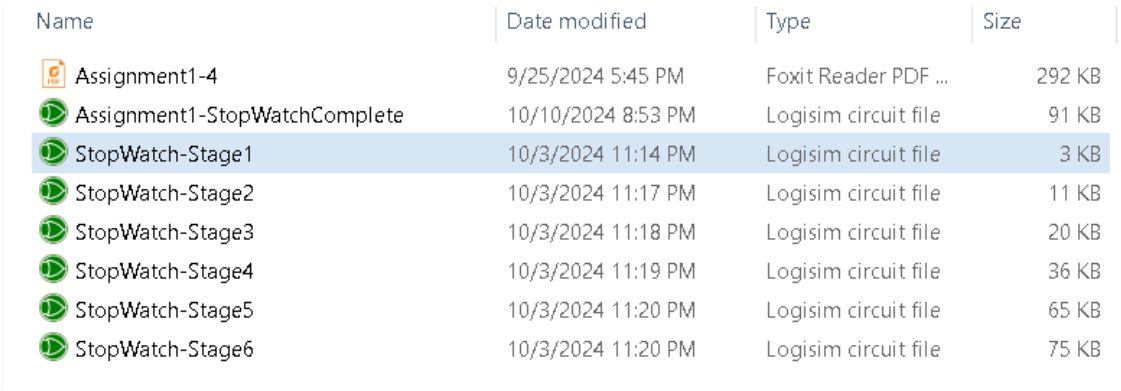
Stage 6a:


First
FirstOut
Second
SecondOut
Third
ThirdOut
Fourth
FourthOut
Split
Reset

Stage6b:


SecondOne
SecondTen
MinuteOne
MinuteTen
Split
Reset
First
Second
Third
Fourth
Split
Reset
FirstOut
SecondOut
ThirdOut
FourthOut
Stage6a
SecondOneOut
SecondTenOut
MinuteOneOut
MinuteTenOut

Each Stage and Complete Circuit:



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Assignment1-4	9/25/2024 5:45 PM	Foxit Reader PDF ...	292 KB
Assignment1-StopWatchComplete	10/10/2024 8:53 PM	Logisim circuit file	91 KB
StopWatch-Stage1	10/3/2024 11:14 PM	Logisim circuit file	3 KB
StopWatch-Stage2	10/3/2024 11:17 PM	Logisim circuit file	11 KB
StopWatch-Stage3	10/3/2024 11:18 PM	Logisim circuit file	20 KB
StopWatch-Stage4	10/3/2024 11:19 PM	Logisim circuit file	36 KB
StopWatch-Stage5	10/3/2024 11:20 PM	Logisim circuit file	65 KB
StopWatch-Stage6	10/3/2024 11:20 PM	Logisim circuit file	75 KB