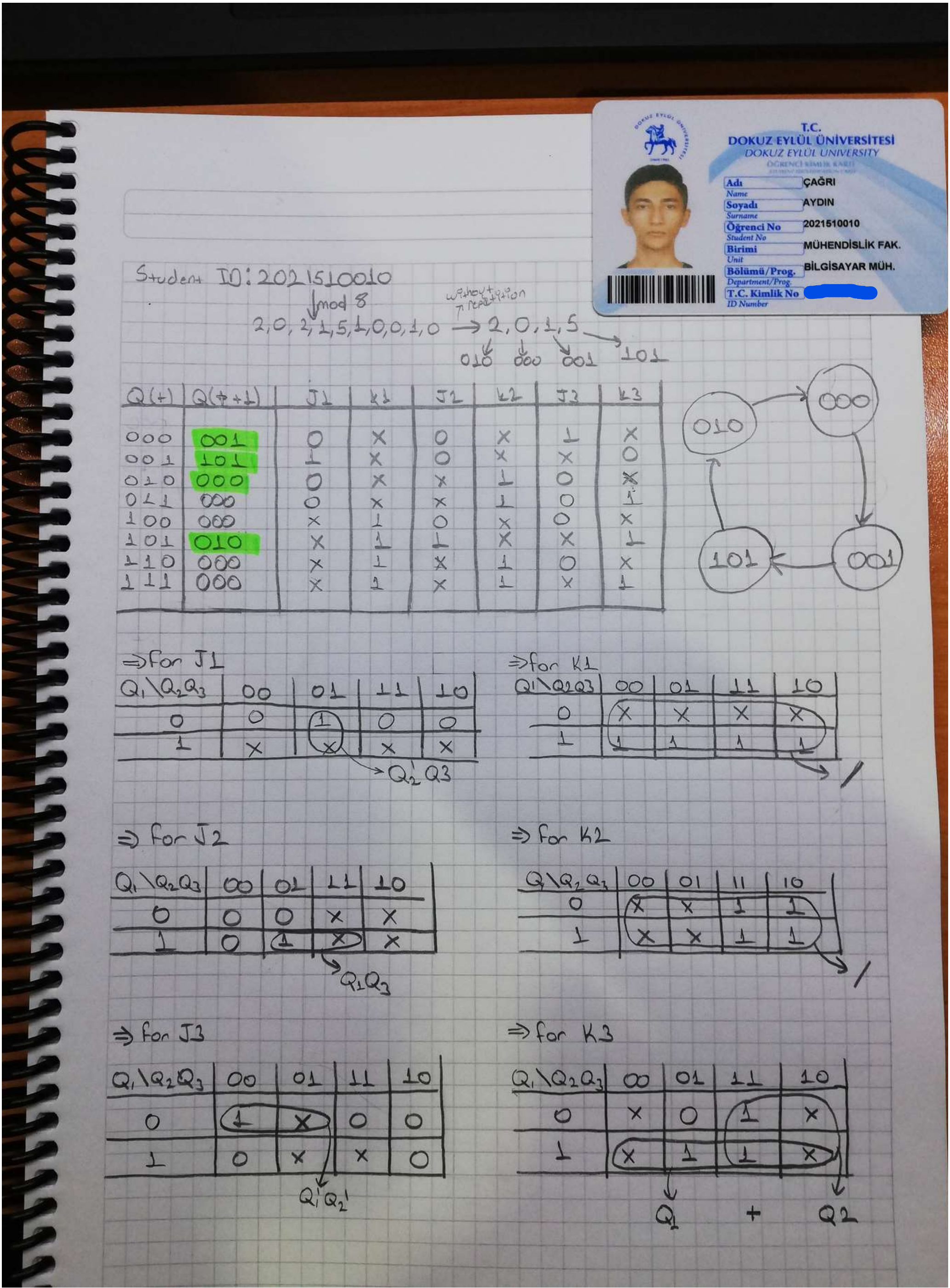
Homework 5


T.C.
DOKUZ EYLÜL ÜNİVERSİTESİ
DOKUZ EYLÜL UNIVERSITY
Adı
Name
ÇAĞRI
Soyadı
Surname
AYDIN
Öğrenci No
Student No
2021510010
Birimi
Unit
MÜHENDİSLİK FAK.
Bölümü/Prog.
Department/Prog.
BİLGİSAYAR MÜH.
T.C. Kimlik No
ID Number
Student ID: 2021510010
mod 8
2,0,2,1,5,1,0,0,1,0
without repetition
2,0,1,5
010 000 001 101
Q(t) Q(t+1) J1 K1 J2 K2 J3 K3
000 001 0 X 0 X 1 X
001 101 1 X 0 X X 0
010 000 0 X X 1 0 X
011 000 0 X X 1 0 1
100 000 X 1 0 X 0 X
101 010 X 1 1 X X 1
110 000 X 1 X 1 0 X
111 000 X 1 X 1 X 1
010
000
101
001
⇒For J1
Q1\Q2Q3 00 01 11 10
0 0 1 0 0
1 X X X X
Q2'Q3
⇒for K1
Q1\Q2Q3 00 01 11 10
0 X X X X
1 1 1 1 1
⇒ for J2
Q1\Q2Q3 00 01 11 10
0 0 0 X X
1 0 1 X X
Q1Q3
⇒for K2
Q1\Q2Q3 00 01 11 10
0 X X 1 1
1 X X 1 1
⇒ for J3
Q1\Q2Q3 00 01 11 10
0 1 X 0 0
1 0 X X 0
Q1'Q2'
⇒for K3
Q1\Q2Q3 00 01 11 10
0 X 0 1 X
1 X 1 1 X
Q1 + Q2

Quartus II 64-Bit - C:/altera/13.0sp1/2021510010_cagri_aydin_hw5 - 2021510010_cagri_aydin_hw5

File Edit View Project Assignments Processing Tools Window Help

2021510010_cagri_aydin_hw5

Project Navigator

Entity

Cyclone III: EP3C16F484C6

2021510010_cagri_aydin_hw5

7476:inst

jkff2:inst2

Hierarchy Files Design Units

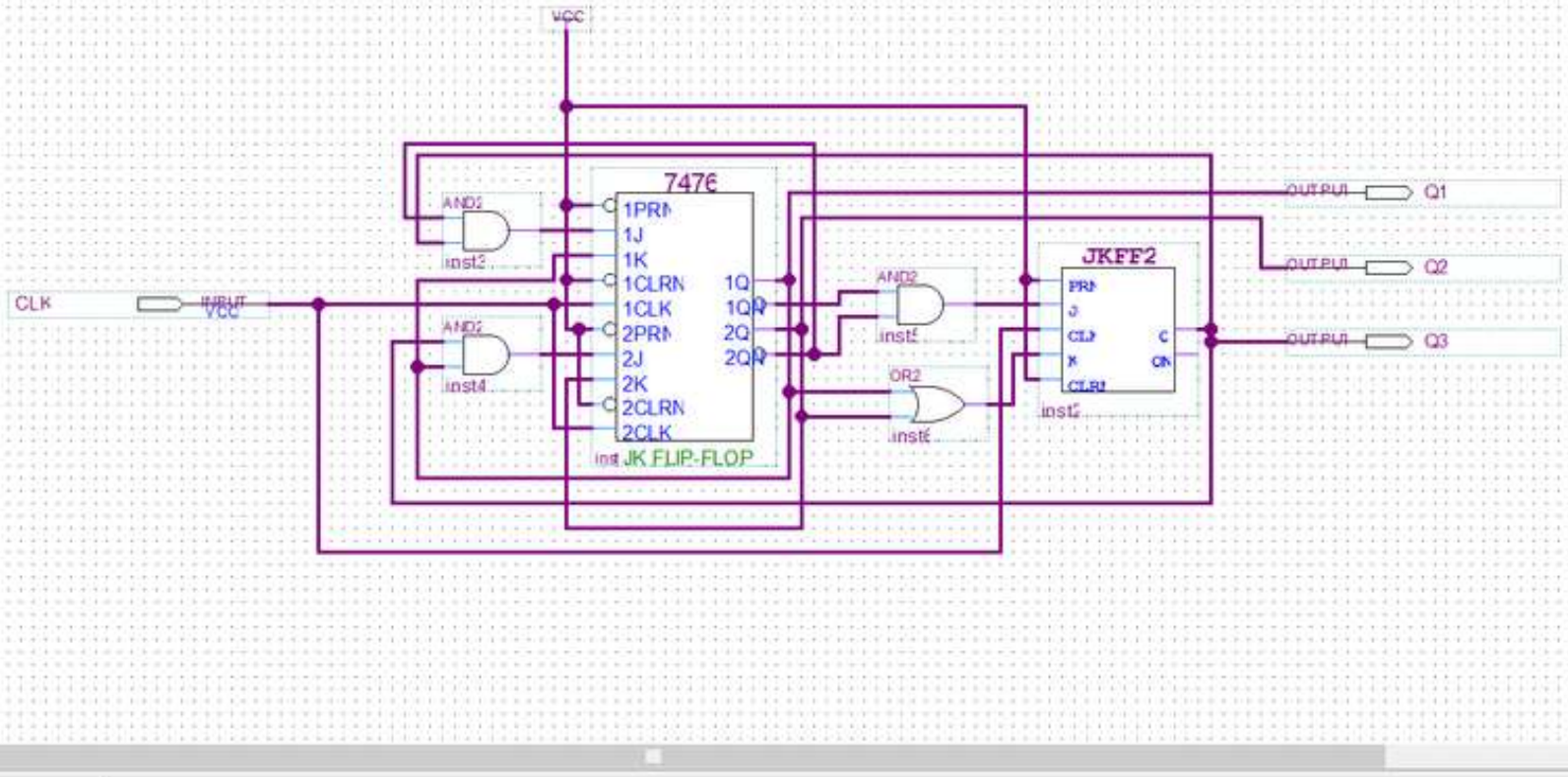
Tasks

Flow: Compilation Customize...

Task	
Compile Design	00:00
Analysis & Synthesis	00:00
Fitter (Place & Route)	00:00
Assembler (Generate programming files)	00:00
TimeQuest Timing Analysis	00:00
EDA Netlist Writer	
Program Device (Open Programmer)	

2021510010_cagri_aydin_hw5.bdf

Compilation Report - 2021510010_cagri_aydin_hw5



All <<Search>>

Type	ID	Message
	332102	Design is not fully constrained for setup requirements
	332102	Design is not fully constrained for hold requirements
>		Quartus II 64-Bit TimeQuest Timing Analyzer was successful. 0 errors, 5 warnings
	293000	Quartus II Full Compilation was successful. 0 errors, 11 warnings

System Processing (109)

Messages

Ara

Simulation Waveform Editor - C:/altera/13.0sp1/2021510010_cagri_aydin_hw5 - 2021510010_cagri_aydin_hw5 - [Waveform14.vwf]

Simulation Waveform Editor - [2021510010_cagri_aydin_hw5.sim.vwf (Read-Only)]

File Edit View Simulation Help

Search altera.com

Master Time Bar: 0 ps Pointer: 694.88 ns Interval: 694.88 ns Start: End:

Name	Value at 0 ps
CLK	B 0
Q1	B 0
Q2	B 0
Q3	B 0

0 ps 80.0 ns 160.0 ns 240.0 ns 320.0 ns 400.0 ns 480.0 ns 560.0 ns 640.0 ns 720.0 ns 800.0 ns 880.0 ns 960.0 ns

0 ps

0% 00:00:00

Ara 21:14 30.05.2023


FUNCTION GENERATOR
FREQUENCY
S/T AMPLITUDE
OUTPUT
LOGIC INDICATOR
BINARY SWITCH
DC POWER SUPPLY (TTL)
+5V
-5V
OSCILLATOR
PULSE
ONE SHOT PULSE
SET RESET PRESET PULSE
T.C.
DOKUZ EYLÜL ÜNİVERSİTESİ
DOKUZ EYLÜL UNIVERSITY
Adı ÇAĞRI
Soyadı AYDIN
Öğrenci No 2021510010
Birimi MÜHENDİSLİK FAK.
Bölümü/Prog. BİLGİSAYAR MÜH.
T.C. Kimlik No [redacted]