**微算機系統**

實驗一

組別： 第16組

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1. 實驗內容：

本次實驗主旨目標

1. 實驗過程及結果：

撰寫你如何完成本次作業的流程方法。

請附上結果圖片(放置於此部分即可)。

目標一:

一張含有 文字, 地圖 的圖片

自動產生的描述

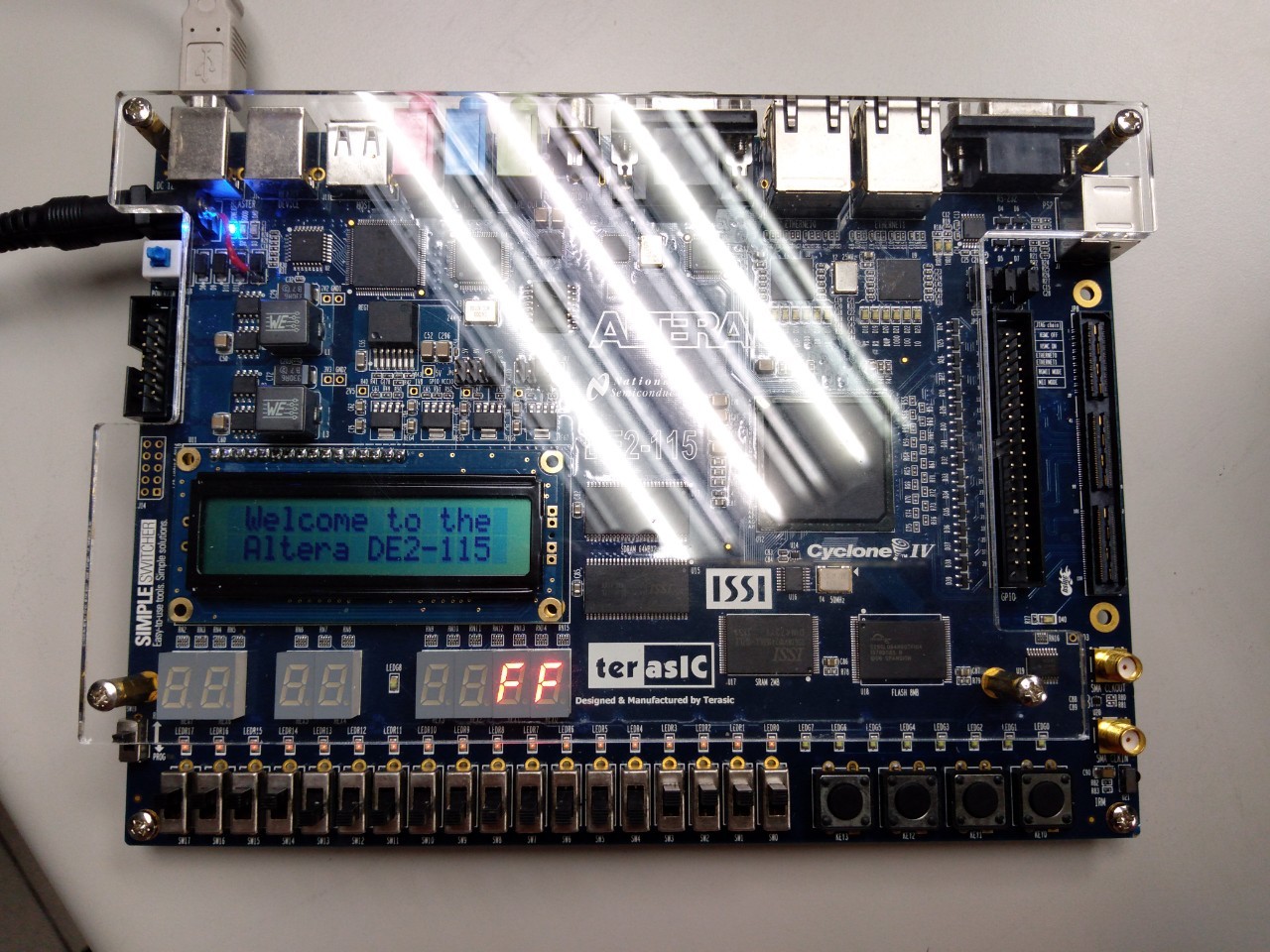
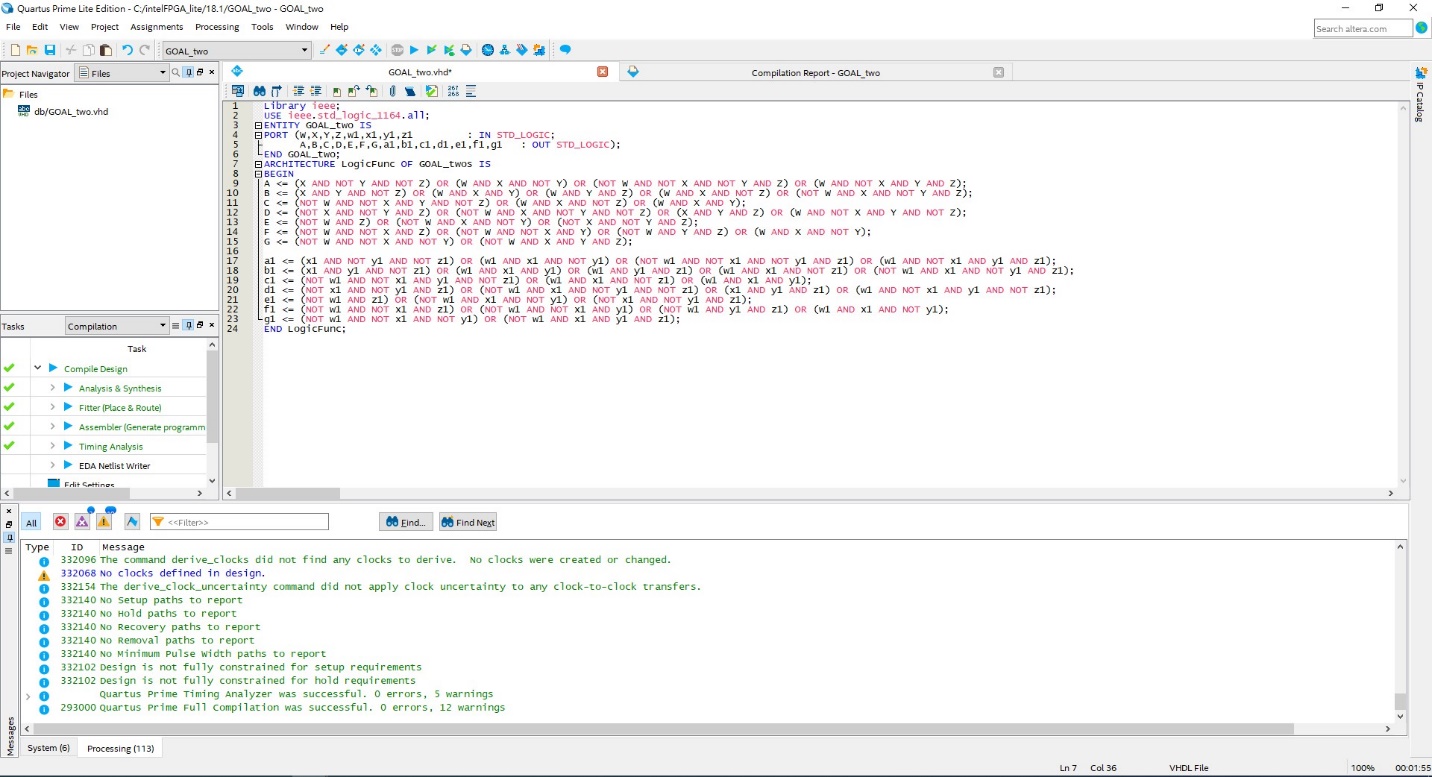
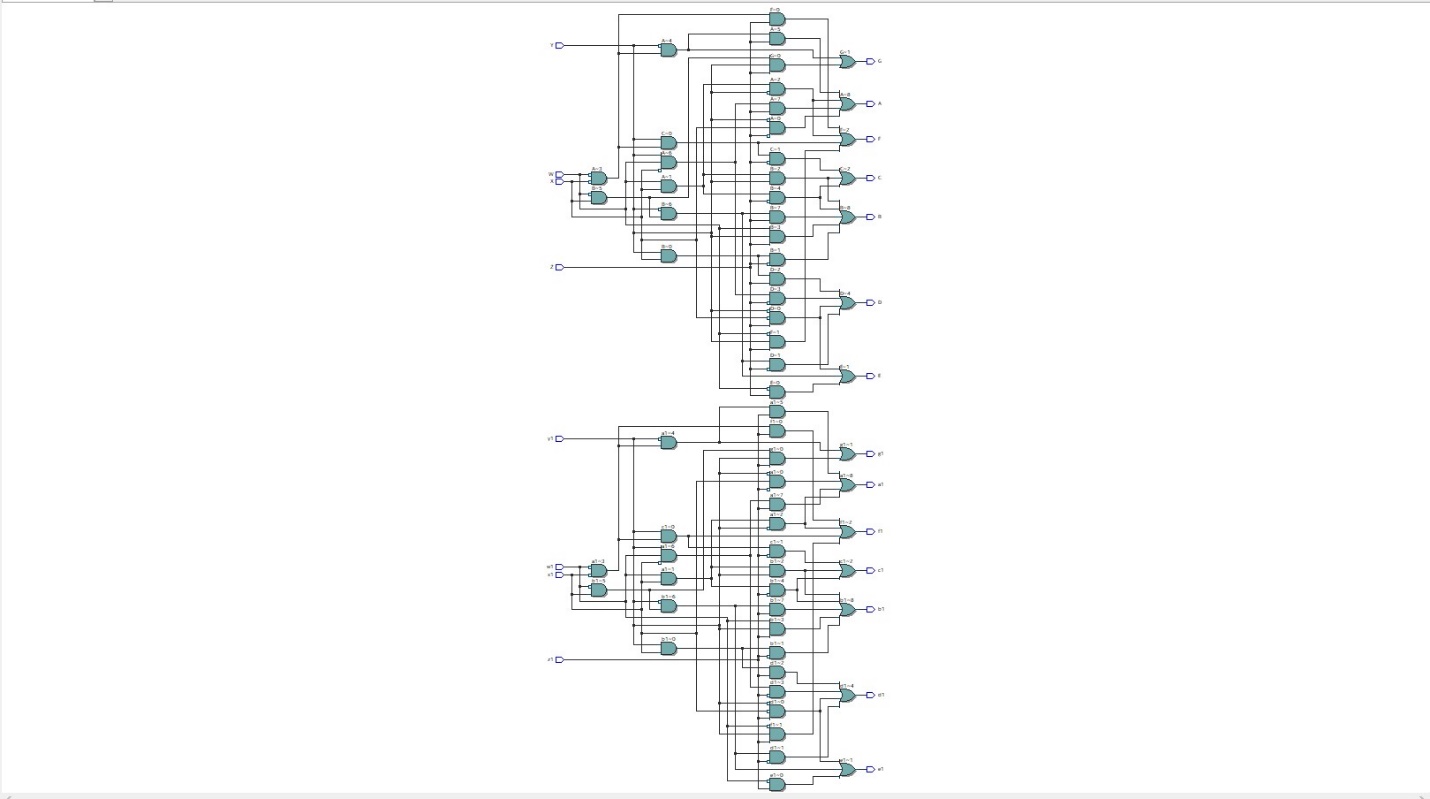
一張含有 螢幕擷取畫面 的圖片

自動產生的描述

一張含有 電子用品, 電路 的圖片

自動產生的描述

目標二:



1. 程式碼（請調整成最小行高，行高0點）

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| 目標一 |
| (程式碼)  Library ieee;  USE ieee.std\_logic\_1164.all;  ENTITY seven\_segment\_display IS  PORT (W,X,Y,Z : IN STD\_LOGIC;  A,B,C,D,E,F,G : OUT STD\_LOGIC);  END seven\_segment\_display;  ARCHITECTURE LogicFunc OF seven\_segment\_display IS  BEGIN  A <= (X AND NOT Y AND NOT Z) OR (W AND X AND NOT Y) OR (NOT W AND NOT X AND NOT Y AND Z) OR (W AND NOT X AND Y AND Z);  B <= (X AND Y AND NOT Z) OR (W AND X AND Y) OR (W AND Y AND Z) OR (W AND X AND NOT Z) OR (NOT W AND X AND NOT Y AND Z);  C <= (NOT W AND NOT X AND Y AND NOT Z) OR (W AND X AND NOT Z) OR (W AND X AND Y);  D <= (NOT X AND NOT Y AND Z) OR (NOT W AND X AND NOT Y AND NOT Z) OR (X AND Y AND Z) OR (W AND NOT X AND Y AND NOT Z);  E <= (NOT W AND Z) OR (NOT W AND X AND NOT Y) OR (NOT X AND NOT Y AND Z);  F <= (NOT W AND NOT X AND Z) OR (NOT W AND NOT X AND Y) OR (NOT W AND Y AND Z) OR (W AND X AND NOT Y);  G <= (NOT W AND NOT X AND NOT Y) OR (NOT W AND X AND Y AND Z);  END LogicFunc; |
| 目標二 |
| (程式碼)  Library ieee;  USE ieee.std\_logic\_1164.all;  ENTITY GOAL\_two IS  PORT (W,X,Y,Z,w1,x1,y1,z1 : IN STD\_LOGIC;  A,B,C,D,E,F,G,a1,b1,c1,d1,e1,f1,g1 : OUT STD\_LOGIC);  END GOAL\_two;  ARCHITECTURE LogicFunc OF GOAL\_two IS  BEGIN  A <= (X AND NOT Y AND NOT Z) OR (W AND X AND NOT Y) OR (NOT W AND NOT X AND NOT Y AND Z) OR (W AND NOT X AND Y AND Z);  B <= (X AND Y AND NOT Z) OR (W AND X AND Y) OR (W AND Y AND Z) OR (W AND X AND NOT Z) OR (NOT W AND X AND NOT Y AND Z);  C <= (NOT W AND NOT X AND Y AND NOT Z) OR (W AND X AND NOT Z) OR (W AND X AND Y);  D <= (NOT X AND NOT Y AND Z) OR (NOT W AND X AND NOT Y AND NOT Z) OR (X AND Y AND Z) OR (W AND NOT X AND Y AND NOT Z);  E <= (NOT W AND Z) OR (NOT W AND X AND NOT Y) OR (NOT X AND NOT Y AND Z);  F <= (NOT W AND NOT X AND Z) OR (NOT W AND NOT X AND Y) OR (NOT W AND Y AND Z) OR (W AND X AND NOT Y);  G <= (NOT W AND NOT X AND NOT Y) OR (NOT W AND X AND Y AND Z);  a1 <= (x1 AND NOT y1 AND NOT z1) OR (w1 AND x1 AND NOT y1) OR (NOT w1 AND NOT x1 AND NOT y1 AND z1) OR (w1 AND NOT x1 AND y1 AND z1);  b1 <= (x1 AND y1 AND NOT z1) OR (w1 AND x1 AND y1) OR (w1 AND y1 AND z1) OR (w1 AND x1 AND NOT z1) OR (NOT w1 AND x1 AND NOT y1 AND z1);  c1 <= (NOT w1 AND NOT x1 AND y1 AND NOT z1) OR (w1 AND x1 AND NOT z1) OR (w1 AND x1 AND y1);  d1 <= (NOT x1 AND NOT y1 AND z1) OR (NOT w1 AND x1 AND NOT y1 AND NOT z1) OR (x1 AND y1 AND z1) OR (w1 AND NOT x1 AND y1 AND NOT z1);  e1 <= (NOT w1 AND z1) OR (NOT w1 AND x1 AND NOT y1) OR (NOT x1 AND NOT y1 AND z1);  f1 <= (NOT w1 AND NOT x1 AND z1) OR (NOT w1 AND NOT x1 AND y1) OR (NOT w1 AND y1 AND z1) OR (w1 AND x1 AND NOT y1);  g1 <= (NOT w1 AND NOT x1 AND NOT y1) OR (NOT w1 AND x1 AND y1 AND z1);  END LogicFunc; |

1. 實驗心得：

每個人的心得報告至少150字以上，有關於此實驗所遇到的難題，解決方法或是對於實驗過程的分析等。（每名組員都要寫）