**Diseño de una calculadora e Interfaz Básica de dos Dígitos**

**Utilizando VHDL**

El trabajo previo se centra en la implementación de un sumador de dos dígitos utilizando VHDL, que se integra con varios display de 7 segmentos para mostrar el resultado de la suma. El diseño del sumador se basa en principios vistos con anterioridad en los otros trabajos previos, mientras que los display de 7 segmentos se utilizan como interfaz visual para representar los números de manera clara y comprensible. La calculadora resultante permite a los usuarios ingresar dos números de un solo dígito y visualizar el resultado de la suma en los display de 7 segmentos de manera legible y precisa.

**Diseño sumador de 4 bits:** REVISAR TRABJOS PREVIOS.

**Diseño Conversor BCD a 7 segmentos con Miniterminos:**

![Tabla

Descripción generada automáticamente con confianza media](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEBLAEsAAD/4RE8RXhpZgAATU0AKgAAAAgABwEOAAIAAAAgAAAIbgE7AAIAAAASAAAIjoKYAAIAAAAQAAAIoIdpAAQAAAABAAAIsJybAAEAAABAAAAQ0JydAAEAAAAkAAAREOocAAcAAAgMAAAAYgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGRpc3BsYXkgNyBzZWdtZW50b3MgYW5vZG8gY29tdW4AY29kaWdvZWxlY3Ryb25pY2EAT3NjYXIgRmVybmFuZGV6AAAB6hwABwAACAwAAAjCAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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c6VC+mNgJLOTnQtUYkqLDGYBVpywsiuh0PCn0CFxDgNh0i9TCDPZGGu4nDCgwVPQRaSnAIlXao71ALSJNHek5QlpAgRa5ifFDAT2GwS6Nmno5DE5zB/sqJqyGEkLcYjeimN7UIQRpapsEohYGny+aSyUSAUwZQ8JhMhlhblx3qOYpgZBE6z1oNjAk6g/eirxXeMjvGKzBQIrhZMXcARjpQShSzYHlo70X8SLCBacCa9I3qTuFZkjdTd6z01MibXQpEUYB5hL9zj/d7PR/AhGQkEPlZJprwguH3EFRMysTHEmypc0bVs4ZCQk5V1rxdX7vemGMggmQCGV5UyXhDJSncOh6JoDSA4MULlSwUtZ2gEXvNBV0+KwSWjoMc5oeEJxHA5iY/z/r+ayMzqMB+WgvAtt2xGVaSWVgCQgpBbNKS71YZnabTTDhSIRkBbW13tTC4RDAwiDenpqUTiUi6ibzBrViHV0iGJYUbRQOTB8EEMWFj4q0hIKDeEIJzvTDACIc5SNOlPw5ZyoRhMbNHEg8d0mANu1E0D3gQC2586Q0zK8wERM6bU/RlYkCUU+/gUmSbzJiIzQJBVKyCEx2mhvBOE3btMqCqsgS7XilT16i+0Rl3pdUUOCqYDMgBRISRgCBDWnazfwcilmbNEt4PNohRZSjiJgJKOFicUkkJEbFygODXrdasnWhOlAPef8pmwgWAkxKYMZzNGGYUbs9iVc5IJZb1iC5JcF43pgOcX3Wl3qJ4SRBdq+M0JgDZm6A6bckpwE4cCa/aXsVACQwWFyT5q2AIsHReYPtRkgghgck3/wDjrT4TBAARIQWbc37AmEGZBLCGgkZvM0YBZA9zpFu5SZRY5APgHvxm8ISOFGaW5ozwACTOwUMlDjsSsac7FXe7ZJkhSt70HSByQwKIdaQ25+2hdZVRN6NbmegwFpV0oqEr0QebPSKcIQwg0AKsa9VqSrZBkbQtlwzNqNIT+jwD8vmlqdurEErt2WhTkABCjaUaRjWgF5AChCYIW0MUgGZpE6AGgAAbH/ZM1ZgCukkjNGHGkubCe94mKQqw7VWV9spGXM5F/hfih2ZlnkvkRDaOU60nfzTETf3DtTbccjld6gfQthoNMoCm4I3oOeKYIIbhEQfNRmlBsjG3za2k1AhIOtzN2Y+Q502LdMRFr+E3/U9Ea8dnqa0lQyByUeSkZkz1p0Pm8dg160lCSGgXN6cr7SUQQAkAsW/8RZqRCkjS8cvL37vxQuw8LmWY1xQfDIUBYPyo3Li2A3tIzQvno0NxB2RGtNhdAEq0WExoabdno2kGEpyB0eeelPOU5o+mL4KUhzI+CjSHODJ3WdyjIRZeijgORPao/glgD/xODNRCUMAs0KQSUCNoCfc71E74dCgiMkaYqW46Jl5wZve+KFW+1IwxrZSYxaaC1Jcscg09P//Z)

Explicación del BCD ya dada en anteriores clases (REVISAR).

**Diseño Calculadora Básica:**

Explicación del diseño estructural de circuitos, usando entity para instanciar en un solo vhdl.

**5.IMPLEMENTACIÓN FPGA:**

Después de tener los RTL y las simulaciones funcionando según lo esperado, es necesario proceder con la programación del chip de la FPGA. Los pines de la FPGA están conectados a diferentes componentes de la placa de desarrollo. Para más detalles, se puede consultar el documento adjunto, específicamente las páginas 32 a 38. El manual de la tarjeta de desarrollo está disponible en el siguiente enlace de la página de Terasic:

[<https://www.terasic.com.tw/cgi-bin/page/archive.pl?Language=English&CategoryNo=165&No=502#contents>].

**PARA TENER EN CUENTA: La FPGA de la board es una Cyclone IV EP4CE115F29C7.**

Imagen de la pantalla de un computador

Descripción generada automáticamente con confianza media

***Vista desde arriba DE2-115***

En la imagen adjunta se muestran varios de los puertos y componentes ya soldados en la placa de desarrollo. Estos componentes están fijos y cada uno está directamente conectado al chip de la FPGA. En caso de requerir la conexión de más displays de 7 segmentos, LEDs, botones o cualquier otro sensor externo, se pueden enlazar a los pines disponibles. Estos pines se conectan directamente a la FPGA, lo que nos proporciona pines de uso general (entrada y salida). Las siguientes imágenes ilustran la conexión de los diversos componentes con el chip de la FPGA.

Diagrama

Descripción generada automáticamente

***Diagrama de bloques, conexiones***

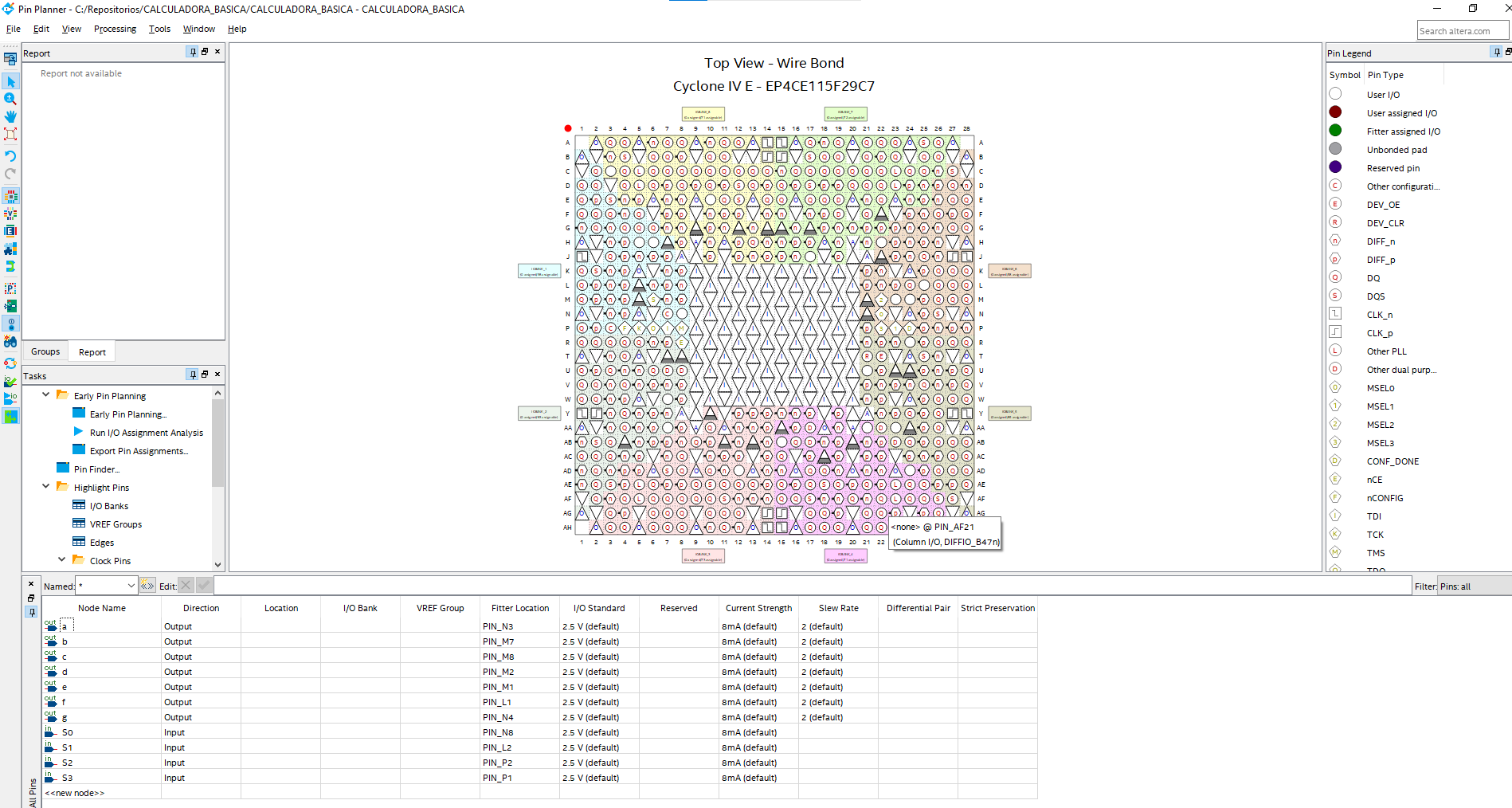
En el diagrama de bloques se muestra la cantidad de pines utilizados para cada módulo. Los módulos que se utilizarán para esta prueba son: un módulo de 8 displays de 7 segmentos, con 56 de sus pines conectados directamente a la FPGA, y un módulo de 18 interruptores (switches), que al igual que los displays, están conectados directamente a la FPGA.

**5.1. CONEXIÓN DEL CIRCUITO CON LA FPGA, USANDO PIN PLANNER:**

Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamentePara realizar las conexiones, se utilizará la herramienta PIN PLANNER, puedes acceder a esta herramienta siguiendo la ruta: Assignments -> PinPlanner. En la siguiente imagen se observa el proceso.

Al hacer click en Pin Planner accederemos a la siguiente ventana:



En la imagen se pueden observar todos los pines de la FPGA dispuestos en una matriz, con los pines dispuestos horizontalmente del 1 al 28 y verticalmente de A a AH. Por lo tanto, para seleccionar cualquier pin, necesitaremos dos elementos: un carácter formado por dos letras o una sola letra, y un número.

En la parte inferior de la imagen se muestran las entradas que declaramos en nuestra entidad principal (top entity). En "Node Name" aparece el nombre de nuestras señales, en "Direction" se indica si es una entrada o salida, y en "Location" es donde comenzaremos a introducir el nombre de los pines correspondientes.Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

**5.1.1. IDENTIFICACIÓN DE PINES**

Antes de comenzar a asignar pines, es importante revisar detenidamente el manual para identificar a qué pines están conectados cada componente. Empezaremos identificando los pines a los que están conectados los switches. Como se mostró anteriormente, hay 18 switches conectados directamente a pines específicos de la FPGA, y la conexión se dispone de la siguiente manera:

Diagrama

Descripción generada automáticamente

Tabla

Descripción generada automáticamente

Para este ejemplo, solo utilizaremos 4 de los switches, ya que necesitamos 4 bits para nuestro BCD. Por lo tanto, los switches a utilizar pueden ser cualquiera de los disponibles, pero optaremos por los primeros 4. Asignaremos los siguientes pines a los switches respectivos:

S0 a PIN\_AB28.

S1 a PIN\_AC28.

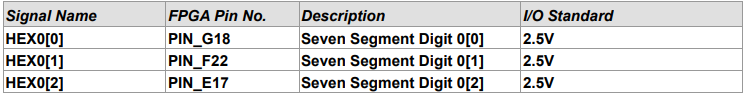
S2 a PIN\_AC27.

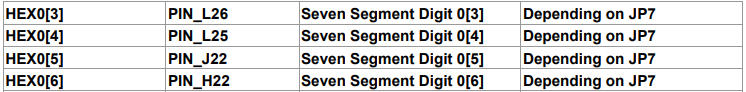
S3 a PIN\_AD27.

El siguiente paso es conectar las 7 salidas de nuestro BCD, las cuales se conectarán a un display de 7 segmentos. En este caso, utilizaremos el display 0, que tiene el nombre HEX0, y está conectado a la FPGA de la siguiente manera:

Diagrama

Descripción generada automáticamente con confianza media





Teniendo en cuenta el diseño de nuestro circuito, asignamos los pines correspondientes a cada segmento del display de 7 segmentos de la siguiente manera:

a <= PIN\_G18

b <= PIN\_F22

c <= PIN\_E17

d <= PIN\_L26

e <= PIN\_L25

f <= PIN\_J22

g <= PIN\_H22.

Una vez que hayamos asignado los pines, al final del proceso deberían aparecer como se muestra en la imagen. Además, en la matriz de la FPGA podrás observar que los pines que estamos utilizando para este circuito se han resaltado en color.**Tabla

Descripción generada automáticamente**

**Mapa, Gráfico de dispersión

Descripción generada automáticamente**

**5.2 PROGRAMAR FPGA**

Después de haber especificado los pines de la FPGA que se conectarán al circuito, el siguiente paso es programar la FPGA seleccionada. Para acceder a la herramienta que programa la FPGA, sigue la siguiente ruta: Tools -> Programmer.

**Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente**

En la ventana del Programador, se muestra el chip de la FPGA que se va a programar. Al lado del botón "Hardware Setup", se especifica si la FPGA está conectada o si no está siendo detectada por el Quartus. Si aparece "No hardware", debes hacer clic en el botón "Hardware Setup" y seleccionar "USB-Blaster". Una vez que aparezca "USB-Blaster", puedes comenzar a programar la FPGA haciendo clic en el botón "Start". Si todo está configurado correctamente, al final debería mostrar "100% Successful" en la esquina superior derecha y en color verde. Con esto completado, podrás comenzar a utilizar los botones que has programado y ver los resultados en el display seleccionado.

**Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

Descripción generada automáticamente**

***Ventana Programmer***

**Interfaz de usuario gráfica, Texto, Aplicación

Descripción generada automáticamente**

***Hardware Setup, detección de FPGA correcta***

**Diagrama

Descripción generada automáticamente con confianza baja**

***Indicación de que la FPGA fue programada con éxito***