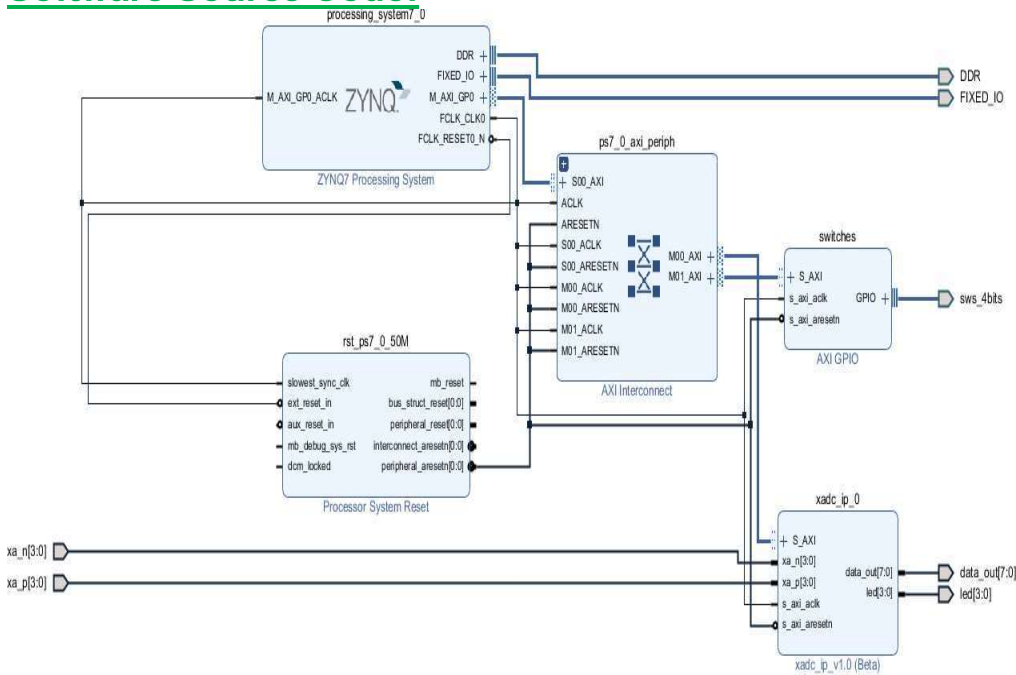


Software Source Code:



In SDK development environment, initialize the AXI GPIO dipswitches, use the dip switches value to write to the slave register of the xadc_custom_ip. The program loops through by keep reading the switch value to turn on or off the leds.

```

1  #include "xparameters.h"
2  #include "xgpio.h"
3  #include "xadc_ip.h"
4
5  //=====
6
7  int main (void)
8  {
9
10     XGpio dip_sw;
11     int i, dip_sw_check;
12
13     xil_printf("-- Start of the Program --\r\n");
14
15     XGpio_Initialize(&dip_sw, XPAR_SWITCHES_DEVICE_ID); // Modify this
16     XGpio_SetDataDirection(&dip_sw, 1, 0xffffffff);
17
18     while (1)
19     {
20         dip_sw_check = XGpio_DiscreteRead(&dip_sw, 1);
21         xil_printf("DIP Switch Status %x\r\n", dip_sw_check);
22
23         // output dip switches value on LED_ip device
24         XADC_IP_mWriteReg(XPAR_XADC_IP_0_S_AXI_BASEADDR, 12, dip_sw_check);
25
26         for (i=0; i<9999999; i++);
27     }
28 }

```