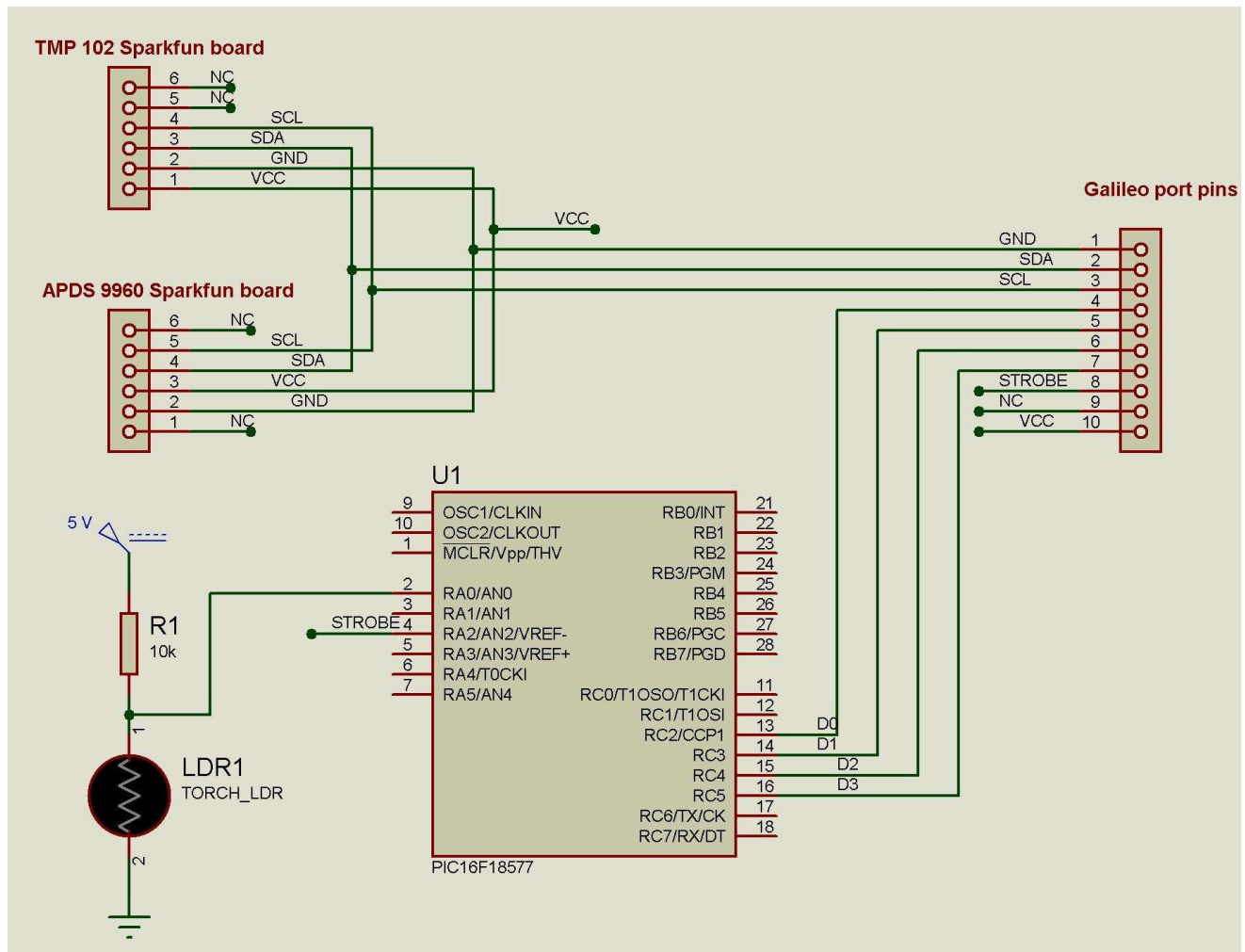


6. Schematic Diagram - Proteus



7. Lab Methods and Procedure.

Hardware Design

- Galileo has Yocto Linux running on it. (SD card has image for Linux)
- Sensors used
 - TMP 102 – temperature sensor (i2c address 0x48)
 - APDS 9960 – proximity, gesture sensor (i2c address 0x39)
- Sensors are connected to Intel Galileo pin via SDA and SCK pins using I2C protocol.
- Camera is connected to Galileo board using USB port
- Following table gives pin connection between TMP102 sensor and Intel Galileo.

TMP 102 Sparkfun board		Intel Galileo	
Pin#	Name	Pin#	Name
#1	VCC	3.3 V	
#2	GND	GND	
#3	SDA	#4	SDA
#4	SCL	#5	SCK
#5	ALT		Not connected
#6	ADD0		Not connected