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#Raspberry Pi Libraries
import RPi.GPIO as GPIO #GPIO library
import time #library for sleep
import board
import digitalio
import adafruit_character_lcd.character_lcd as characterlcd
#set mode as BCM
GPIO.setmode(GPIO.BCM)
# Modify this if you have a different sized character LCD
lcd_columns = 16
lcd_rows = 2
# Raspberry Pi Pin Config:
lcd_rs = digitalio.DigitalInOut(board.D5)
lcd_en = digitalio.DigitalInOut(board.D6)
lcd_d4 = digitalio.DigitalInOut(board.D12)
lcd_d5 = digitalio.DigitalInOut(board.D13)
lcd_d6 = digitalio.DigitalInOut(board.D16)
lcd_d7 = digitalio.DigitalInOut(board.D17)
# Initialise the lcd class
lcd = characterlcd.Character_LCD_Mono(
  lcd_rs, lcd_en, lcd_d4, lcd_d5, lcd_d6, lcd_d7, lcd_columns, lcd_rows)
#set pins
IR_OUT = 21
BUZ = 22
#setup pins at output
GPIO.setup(IR_OUT, GPIO.IN)
GPIO.setup(BUZ, GPIO.OUT)
def destroy():
  GPIO.output (BUZ, GPIO.LOW)
  GPIO.cleanup()
```

```
if __name__ =='__main__':
  try:
    while True:
      IR_State = GPIO.input(IR_OUT)
      if (IR_State == True):
        print ("OBJECT DETECTED")
        lcd.clear()
        lcd.message ="OBJECT DETECTED"
        GPIO.output (BUZ, GPIO.HIGH)
        time.sleep(0.5)
        GPIO.output (BUZ, GPIO.LOW)
      else:
        lcd.clear()
        lcd.message ="NO OBJECT"
        time.sleep(0.5)
        print ("NO OBJECT")
  except KeyboardInterrupt:
    destroy()
```