```
#include<LiquidCrystal.h>
LiquidCrystal lcd(2, 3, 4, 5, 6, 7);
int timer1;
int timer2;
float Time;
int flag1 = 0;
int flag2 = 0;
float distance = 5.0;
float speed;
int ir_s1 = A0;
int ir_s2 = A1;
int buzzer = 13;
void setup(){
 pinMode(ir_s1, INPUT);
 pinMode(ir_s2, INPUT);
 pinMode(buzzer, OUTPUT);
 lcd.begin(16,2);
 lcd.clear();
lcd.setCursor(0,0);
lcd.print(" ARDUINO ");
lcd.setCursor(0,1);
 lcd.print("SPEED DETECTOR");
```

```
delay(15000);
 lcd.clear();
}
void loop() {
if(digitalRead (ir_s1) == LOW && flag1==0){timer1 = millis(); flag1=1;}
if(digitalRead (ir_s2) == LOW && flag2==0){timer2 = millis(); flag2=1;}
if (flag1==1 && flag2==1){
  if(timer1 > timer2){Time = timer1 - timer2;}
else if(timer2 > timer1){Time = timer2 - timer1;}
Time=Time/1000;//convert millisecond to second
speed=(distance/Time);//v=d/t
speed=speed*3600;//multiply by seconds per hr
speed=speed/1000;//division by meters per Km
}
if(speed==0){
lcd.setCursor(0, 1);
if(flag1==0 && flag2==0){lcd.print("No car detected");}
           else{lcd.print("Searching... ");}
}
else{
  lcd.clear();
  lcd.setCursor(0, 0);
  lcd.print("Speed:");
  lcd.print(speed,1);
  lcd.print("Km/Hr ");
  lcd.setCursor(0, 1);
 if(speed > 50){lcd.print(" Over Speeding "); digitalWrite(buzzer, HIGH);}
```

```
else{lcd.print(" Normal Speed "); }
delay(3000);
digitalWrite(buzzer, LOW);
speed = 0;
flag1 = 0;
flag2 = 0;
}
```