**Code using IR Sensor**

// include the library code:

#include <LiquidCrystal.h>

// initialize the library with the numbers of the interface pins

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

int i;

void setup() {

  lcd.begin(16, 2);

  pinMode(13, OUTPUT);

  pinMode(8, OUTPUT);

  pinMode(7, INPUT);

  lcd.print("SOLAR AND COIN ");

  lcd.setCursor(0, 1);

  lcd.print("BASED MOBILE");

  delay(1500);

  lcd.setCursor(0, 0);

  lcd.print("              ");

  lcd.setCursor(0, 1);

  lcd.print("      CHARGER       ");

  delay(1000);

  lcd.setCursor(0, 0);

  lcd.print("INSERT THE COIN");

  lcd.setCursor(0, 1);

  lcd.print("                   ");

}

void loop() {

  lcd.setCursor(0, 0);

  lcd.print("  INSERT  COIN  ");

  lcd.setCursor(0, 1);

  lcd.print("                ");

  if(digitalRead(7)==HIGH)

  {

      lcd.print(" COIN  INSERTED ");

      delay(1000);

      lcd.setCursor(0, 0);

      lcd.print("MOBILE CHARGING.");

      digitalWrite(8,HIGH);

      for(i=59;i>=0;i--)

      {

        lcd.setCursor(0, 1);

        if(i>9)lcd.print("       ");

        else lcd.print("        ");

        lcd.print(i);

        delay(1000);

        digitalWrite(13,HIGH);

      }

  }

  digitalWrite(8,LOW);

  digitalWrite(13,LOW);

}