

IoT ASSIGNMENT 2

```
#include <DS3231.h>
#include <LiquidCrystal.h>

DS3231 rtc(SDA, SCL);

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

void setup()
{
  rtc.begin();
  lcd.begin(16,2);
  rtc.setDOW(SUNDAY); // Set Day-of-Week
  rtc.setTime(18, 50, 35); // Set the time to 12:00:00 (24hr format)
  rtc.setDate(16, 12, 2018); // Day, Month, Year
}

void loop()
{
  lcd.setCursor(0,0);
  lcd.print("Real Time Clock ");

  lcd.setCursor(0,1);
  lcd.print("Time: ");
  lcd.print(rtc.getTimeStr());
  delay(3000);

  lcd.setCursor(0,1);
  lcd.print("Date: ");
  lcd.print(rtc.getDateStr());
  delay(3000);
```

```
lcd.setCursor(0,1);  
lcd.print("Day: ");  
lcd.print(rtc.getDOWStr());  
lcd.print(" ");  
delay(3000);
```

```
lcd.setCursor(0,1);  
lcd.print("Temp: ");  
lcd.print(rtc.getTemp());  
lcd.print(" C");  
lcd.print(" ");  
delay(3000);  
}
```

CIRCUIT DIAGRAM

