

```

// displey o'lchamini o'rnatish
led.begin(16, 2);
led.clear();
}
void loop(void)
{
int t=get_temp();
lcd.setCursor(0,1);lcd.print(" ");
lcd.setCursor(0,1);
led.print(t/16);lcd.print(".");lcd.print((t%16)*100/16);
}
// DS18B20 datchikdan axborotlarni olish
int get_temp()
{
byte i;
byte present = 0;
byte data[12];
byte addr[8];
int Temp;
if ( !ds.search(addr))
{Serial.print("No more addresses.\n");
ds.reset_search();
return -1;
}
// 1-Wire qurilmasining noyob manzilini monitorga chiqarish
lcd.setCursor(0,0);
lcd.print("R=");
for ( i = 0; i < 8; i++)
{lcd.print(addr[i], HEX);lcd.print(" ");}
if ( OneWire::crc8( addr, 7) != addr[7])
{
Serial.print("CRC is not valid!\n");
return -1;
}
if ( addr[0] != 0x28)
{
Serial.print("Device is not a DS18S20 family device.\n");
return -1;
}
ds.reset();
// datchik orqali haroratni konvertatsiyasini boshlash
ds.write(0x44,1);
delay(750); // 750 ms kutiladi

```