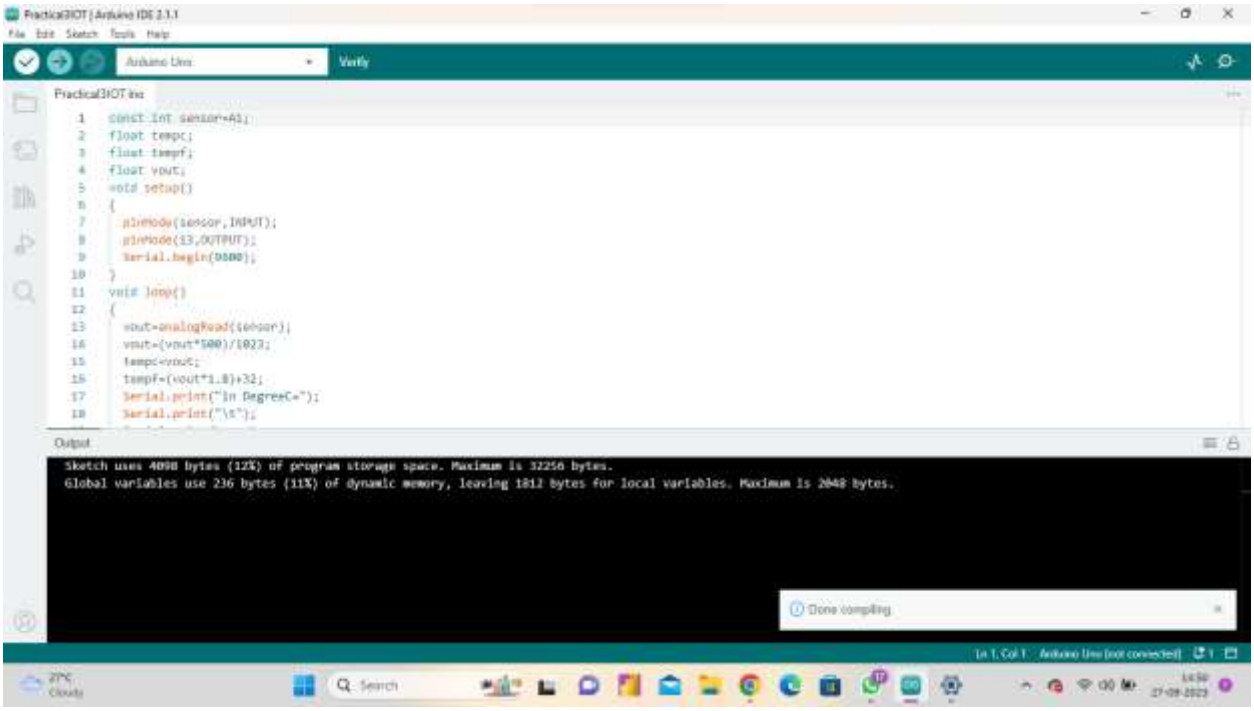
PRACTICAL 3

```
const int sensor=A1;
float tempc;
float tempf;
float vout;
void setup()
{
  pinMode(sensor,INPUT);
  pinMode(13,OUTPUT);
  Serial.begin(9600);
}
void loop()
{
  vout=analogRead(sensor);
  vout=(vout*500)/1023;
  tempc=vout;
  tempf=(vout*1.8)+32;
  Serial.print("in DegreeC=");
  Serial.print("\t");
  Serial.print(tempc);
  Serial.println();
  Serial.print("in Fahrenheit=");
  Serial.print("\t");
  Serial.print(tempf);
  Serial.println();
  delay(2000);

  if(tempc>=25)
  {
    digitalWrite(13,HIGH);
    delay(500);
  }
  else
  {
    digitalWrite(13,LOW);
    delay(500);
  }
}
```


Practical3IOT | Arduino IDE 2.1.1
File Edit Sketch Tools Help
Arduino Uno
Verify
Practical3IOT.ino
1 const int sensor=A1;
2 float tempc;
3 float tempf;
4 float vout;
5 void setup()
6 {
7 pinMode(sensor,INPUT);
8 pinMode(13,OUTPUT);
9 Serial.begin(9600);
10 }
11 void loop()
12 {
13 vout=analogRead(sensor);
14 vout=(vout*500)/1023;
15 tempc=vout;
16 tempf=(vout*1.8)+32;
17 Serial.print("In DegreeC=");
18 Serial.print("\t");
Output
Sketch uses 4098 bytes (12%) of program storage space. Maximum is 32256 bytes.
Global variables use 236 bytes (11%) of dynamic memory, leaving 1812 bytes for local variables. Maximum is 2048 bytes.
Done compiling.
Ln 1, Col 1 Arduino Uno [not connected]
27°C
Cloudy
Search
14:50
27-09-2023