Assignment -1

Python Programming

Assignment Date	27 September 2022
Student Name	Archana S
Student Roll Number	922519205012
Maximum Marks	2 Marks

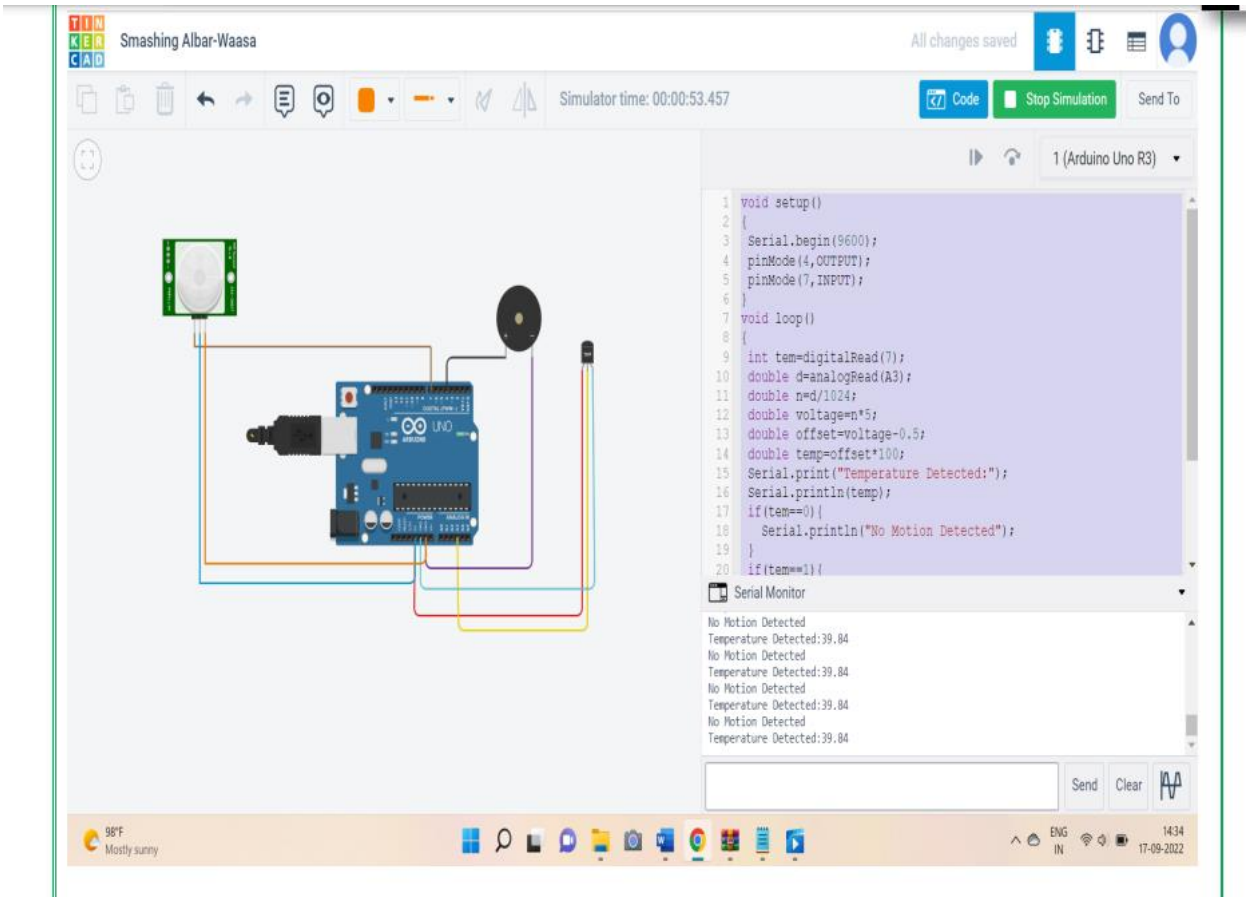
Question-1:

To design a circuit using PIR sensor, Temperature sensor and Piezo alarm and to perform the following operations:

- Alarm should sound in one manner if the temperature is about “60 C”.
- Alarm should sound with another frequency if motion is detected using PIR sensor.

```
void setup()
{
Serial.begin(9600);
pinMode(4,OUTPUT);
pinMode(7,INPUT);
}
void loop()
{
int tem=digitalRead(7);
double d=analogRead(A3);
double n=d/1024;
double voltage=n*5;
double offset=voltage-0.5;
double temp=offset*100;
Serial.print(“Temperature Detected:”);
Serial.println(temp);
if(tem==0){
Serial.println("No Motion Detected");
}
if(tem==1){
Serial.println("Motion Detected");
tone(4,100,1000);
}
if(temp>60){
tone(4,400,1000);
}
}
```

OUTPUT:


Smashing Albar-Waasa
All changes saved
Simulator time: 00:00:53.457
Code
Stop Simulation
Send To
1 (Arduino Uno R3)
void setup()
{
Serial.begin(9600);
pinMode(4,OUTPUT);
pinMode(7,INPUT);
}
void loop()
{
int tem=digitalRead(7);
double d=analogRead(A3);
double n=d/1024;
double voltage=n*5;
double offset=voltage-0.5;
double temp=offset*100;
Serial.print("Temperature Detected:");
Serial.println(temp);
if(tem==0){
Serial.println("No Motion Detected");
}
if(tem==1){
Serial Monitor
No Motion Detected
Temperature Detected:39.84
No Motion Detected
Temperature Detected:39.84
No Motion Detected
Temperature Detected:39.84
No Motion Detected
Temperature Detected:39.84
Send
Clear
98°F
Mostly sunny
ENG
IN
14:34
17-09-2022