Assignment -1

Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

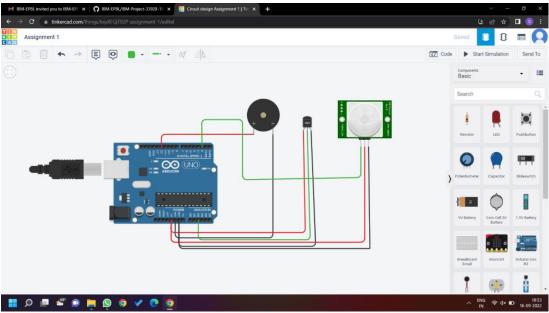
Write a program to detect temperature and motion-based buzzer alarm using temperature and PIR sensor using Ardino UNO.

SOLUTION:

```
CODE:
void setup()
{
Serial.begin(9600);
pinMode(2,INPUT);
pinMode(12,OUTPUT);
}
void loop()
{
int motion=digitalRead(2);
if(motion==1)
{
  Serial.println("Motion is detected !");
  tone(12,10);
  delay(1000);
  noTone(12);
  delay(3000);
}
else
  Serial.println("No Motion !!!");
```

```
delay(1000);
}
double data=analogRead(A2);
 double temp=(((data/1024)*5)-0.5)*100;
if(temp>60)
{
  Serial.println("Temperature is greater than 60 degrees !");
  Serial.println(temp);
  tone(12,100);
  delay(1000);
  noTone(12);
  delay(3000);
}
else
{
       Serial.println("Temperature is less than 60 degrees !!!");
  Serial.println(temp);
  delay(1000);
}
}
```

CIRCUIT:



OUTPUT:

Simulation video link:

https://drive.google.com/file/d/1g46Hn9xyNwVSIj0DTTM99I4bI6nExPAq/view?usp=sharing