

ASSIGNMENT - 1

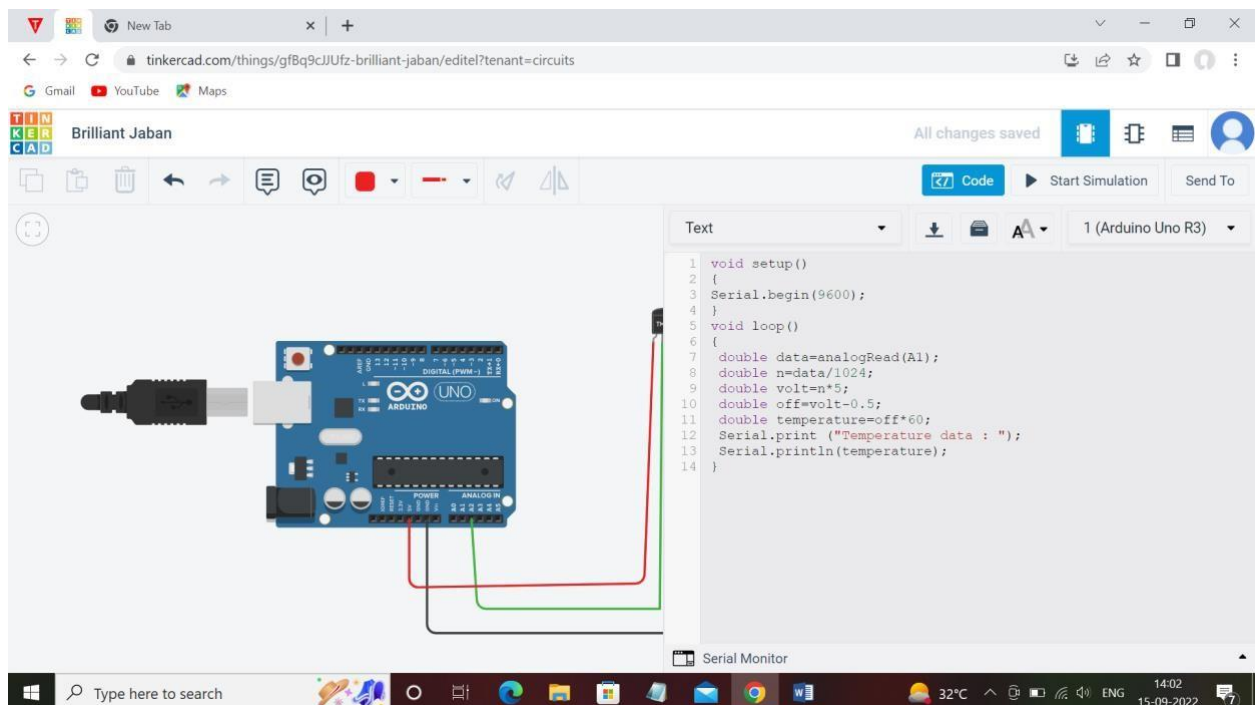
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Name	V.S YUVATI MALAVIKAA
Student Roll Number	311419104072
Maximum Marks	2 Marks

1. Alarm should sound in one manner if Temperature is about 60 C

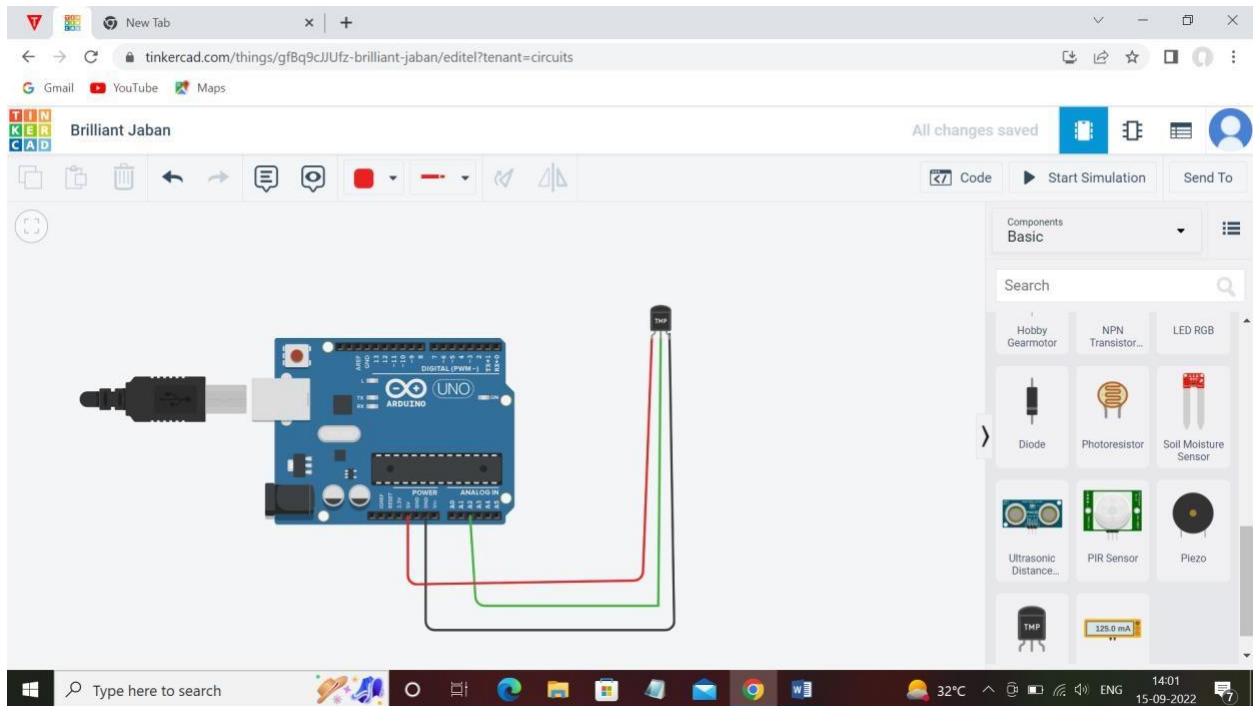
PROGRAM:

```
void setup()
{
  Serial.begin(9600);
} void
loop()
{  double
  data=analogRead(A1);
  double n=data/1024;
  double volt=n*5;
```

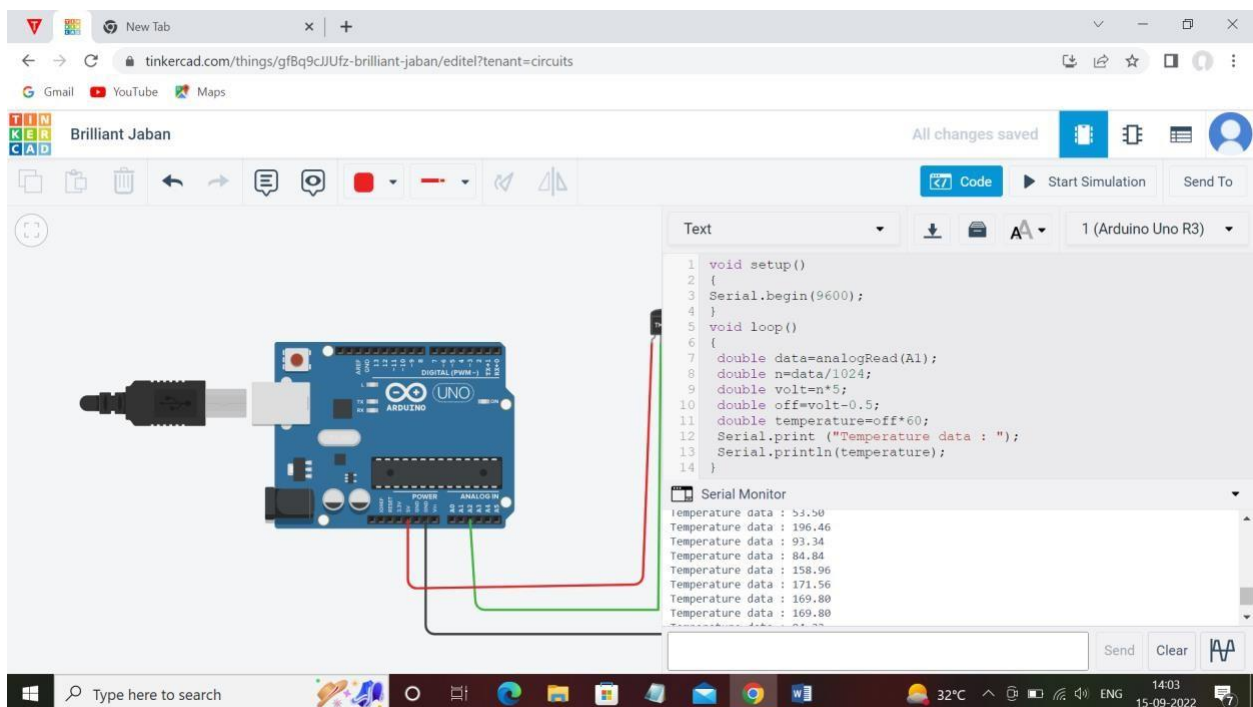
```
double off=volt-0.5;    double  
temperature=off*60; Serial.print  
("Temperature data : ");  
Serial.println(temperature);  
}
```



CIRCUIT DIAGRAM:



OUTPUT:



2. Alarm should sound in another frequency if motion is detected in PIR sensor

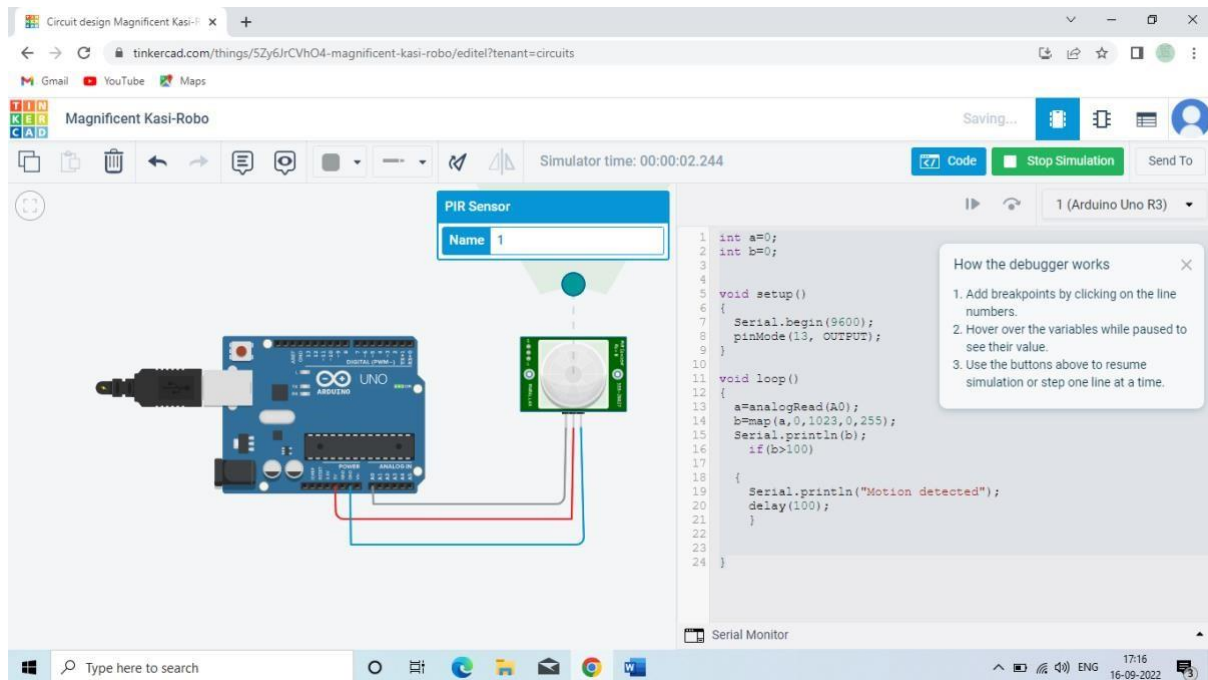
PROGRAM:

```
Int a=0;
Int b=0;

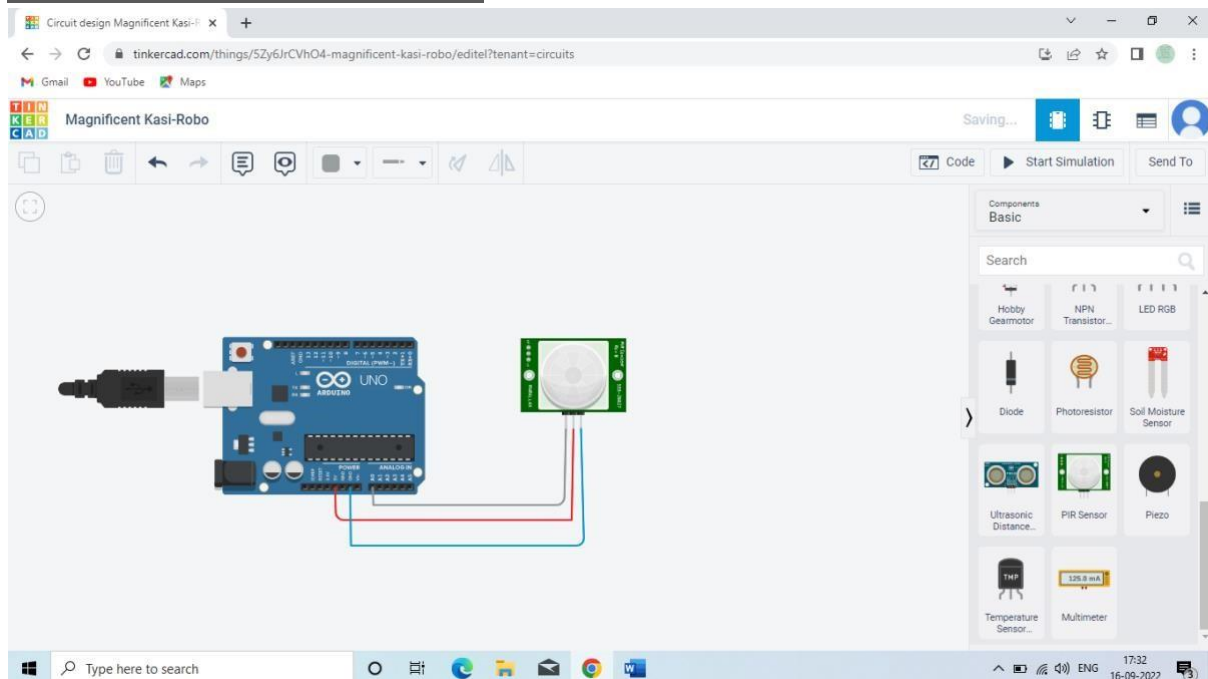
Void setup()
{
  Serial.begin(9600);
  pinMode(13, OUTPUT);
} void
loop()
{
  a=analogRead(A0);
  b=map(a,0,1023,0,255);
  Serial.println(b);
  if(b>100)

  {
    Serial.println("Motion
detected");  delay(100);
  }

}
```



CIRCUIT DIAGRAM:



OUTPUT:

