

## **Assignment-1**

Make a smart home with 2-3 sensors, LED, Buzzer in single code and connections.

### Code:

```
float x,y,z,temp;

void setup()
{
  pinMode(8, INPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
  pinMode(A5, INPUT);
  pinMode(A4, INPUT);
  Serial.begin(9600);
}

void loop()
{
  x= digitalRead(8);
  y= analogRead(A5);
  z= analogRead(A4);
  Serial.println(x);
  Serial.println(y);
  Serial.println(z);
  temp = (double)z / 1024;
  temp = temp * 5;
  temp = temp - 0.5;
  temp = temp * 100;
  if ( (x>0) )
```

```
{  
  if ((y<550)&&(temp>30))  
  {  
    digitalWrite(5, HIGH);  
    digitalWrite(6, HIGH);  
  }  
  else if((y<550)&&(temp<30))  
  {  
    digitalWrite(5, HIGH);  
    digitalWrite(6, LOW);  
  }  
  else if((y>550)&&(temp>30))  
  {  
    digitalWrite(5, LOW);  
    digitalWrite(6, HIGH);  
  }  
  else if((y>550)&&(temp<30))  
  {  
    digitalWrite(5, LOW);  
    digitalWrite(6, LOW);  
  }  
}  
else  
{  
  digitalWrite(5, LOW);  
  digitalWrite(6, LOW);  
}  
}
```