

V.S.B ENGINEERING COLLEGE, KARUR

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Assignment-1

Aim- To make a smart home in tinkercad using 2+sensor,led,buzzer, in single code and circuit

```
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);  
}
```

}

