

Assignment -1

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

Question-1:

Make a smart home in tinkercad using 2+sensors,led,buzzer in single code and circuit

Solution:

```
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) )2
{
  if ((y<550)&&(temp>30))
  {
    digitalWrite(5, HIGH);
    digitalWrite(6, HIGH);
  }
  else if((y<550)&&(temp550)&&(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);
}
}
```

CIRCUIT DIAGRAM :

