

Assignment -1
Python Programming

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

Question-1:

Create a smart home using sensors in tinkercad?

Solution:

CODE:

```
Float x,y,z,temp;
Void setup()
{
  pinMode(5, OUTPUT);
  pinMode(8, INPUT);
  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);
}
}
}

```

