

ASSIGNMENT 1

HOME AUTOMATION CODE

```
int x,y,t ;

void setup ()
{
    pinMode( 8, INPUT);
    pinMode( 5, OUTPUT);
    pinMode (A5, INPUT);
    pinMode (6,OUTPUT);
    pinMode(4,OUTPUT);
    pinMode(A4,INPUT);
    Serial.begin(9600);
}

void loop ()
{
    float temp = analogRead(A4);
    float t = map(analogRead(A4),20,358,-40,125);
    if(t>27)
    {
        digitalWrite(4,HIGH);
    }
    else
    {
        digitalWrite(4,LOW);
    }

    float LDR = map(analogRead(A5),54,975,255,0);
    int percent = map(analogRead(A5),54,975,0,100);
    if(analogRead(A5)<900){
        digitalWrite(6,HIGH);
    }
    else
```

```

{
    digitalWrite(6,LOW);
}
x= digitalRead(8);

if (x<1)
{
    digitalWrite(5,0);
}
else
{
    if ((y<550) && (t>32))
    {
        {digitalWrite(5,1);
        digitalWrite(2,1);}
        delay(4000);
    }

    else
    {
        if ((y>550) && (t>32))
        {
            {digitalWrite(5,0);
            }
            delay(4000);

        }

        else
        {
            if ((y<550) && (t<32))

```

```
        {  
        {digitalWrite(5,1);  
        }  
        delay(4000);  
  
        }  
  
        else  
        {  
        {digitalWrite(5,0);  
        }  
        delay(1000);  
        }  
    }  
}  
  
  
}  
}
```