

DMI ENGINEERING COLLEGE

ARALVOIMOZHI

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN

ASSIGNMENT-1

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SMART HOME AUTOMATION-TEMPERATURE CONTROLLER

CODING:

```
float temp=A0 ;  
float tempC=11 ;  
float tempMV=13;  
void setup()  
{  
  pinMode(A0,INPUT);  
  pinMode(11,OUTPUT);  
  pinMode(13,OUTPUT);  
  Serial.begin(9600);  
}  
void loop()  
{  
  temp=analogRead(A0);  
  tempMV=temp*5000/1024;
```

```
tempC=(tempMV/10)+(-50);
```

```
Serial.println( tempC);
```

```
if(tempC>25)
```

```
{
```

```
tone(11,5000,100);
```

```
digitalWrite(13,HIGH);
```

```
}
```

```
else
```

```
digitalWrite(13,LOW);
```

```
}
```

