ASSIGNMENT – I

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PROGRAM CODE

```cpp
// C++ code int
peizo = 3; int pir
= 2; int tmp = 1;
int TmpVal; int
pirLed = 4; int
TempLed = 5;
void setup()
{
pinMode(peizo,OUTPUT);
pinMode(tmp, INPUT);
pinMode(pir, INPUT);
pinMode(pirLed, OUTPUT);
pinMode(TempLed, OUTPUT);
Serial.begin(9600);
} void loop()
{
TmpVal = analogRead(tmp);
Serial.write(TmpVal);
if(TmpVal>246){
digitalWrite(TempLed,HIGH);
for(int i=255;i>0;i--){ delay(1);
analogWrite(peizo,i); }
analogWrite(peizo,0);
digitalWrite(TempLed,LOW);
delay(100); }
if(digitalRead(pir) == HIGH){
digitalWrite(pirLed,HIGH);
for(int i=0;i<255;i++){
delay(1); int x = (i*i*i)%255;
analogWrite(peizo,x); }
analogWrite(peizo,0);
digitalWrite(pirLed,LOW);
delay(100); }
}
```