Task Week 4

Design and programming of an electronic circuit for a sensor of two types, Analog & Digital

```
//Digital Analog Input

#define buttonPin 8
#define led1Pin 12
#define potPin A5
#define led2Pin 11
bool buttonStatus;
int potValue;
int ledValue;

void setup(){
  pinMode(led1Pin,OUTPUT);
  pinMode(led2Pin,OUTPUT);
  pinMode(buttonPin,INPUT);
  pinMode(potPin,INPUT);
}
void loop(){
  buttonStatus = digitalRead(buttonPin);
   if(buttonStatus == 0){
   digitalWrite(led1Pin,HIGH);
   }else{
     digitalWrite(led1Pin,LOW);
   }

  potValue = analogRead(potPin);
  ledValue = map(potValue,0,1023,0,255);
  analogWrite(led2Pin,ledValue);

  delay(100);
}
```