Assignment 1:
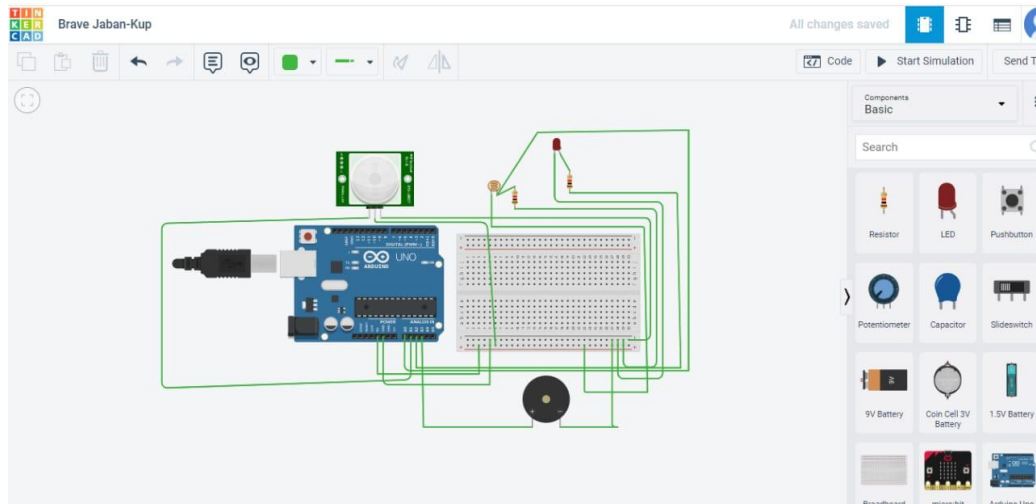


```
const int photo=A0;
const int pir=A1;
const int led=A2;
const int buz=A3;
int a,b;
void setup()
{
  pinMode(LED_BUILTIN, OUTPUT);
  pinMode(photo,INPUT);
  pinMode(pir,INPUT);
  pinMode(led,OUTPUT);
  pinMode(buz,OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  digitalWrite(LED_BUILTIN, HIGH);
  digitalWrite(photo,HIGH);
  digitalWrite(pir,HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(LED_BUILTIN, LOW);
  digitalWrite(photo,LOW);
  digitalWrite(pir,LOW);
  delay(1000);
  a=analogRead(pir);
  if(a>0){
    digitalWrite(buz,HIGH);
  }
```

```
  else{
    digitalWrite(buz,LOW);
  }
  b=analogRead(photo);
  if(b<450){
    digitalWrite(led,HIGH);
  }
  else{
    digitalWrite(led,LOW);
  }
}
```