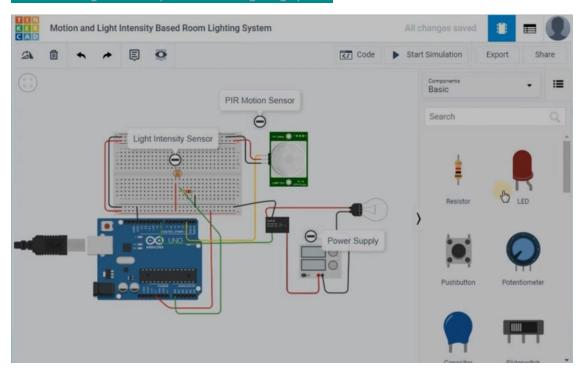
ASSESMENT-1

Motion and light intensity based room lighting system



PROGRAM

```
int LightSensorVal = 0;
int PIRSensorVal = 0;
int RelayOutputVal = 0;
void setup()
{
   pinMode(A0, INPUT); pinMode(2, INPUT); pinMode(8, OUTPUT);
   Serial.begin(9600);
}
```

```
void loop()
{
 LightSensorVal = analogRead(A0);
 PIRSensorVal = digitalRead(2);
 RelayOutputVal = 8;
 if (LightSensorVal < 600) {
  if (PIRSensorVal == HIGH) {
   digitalWrite(8, HIGH);
   delay(5000); // Wait for 5000 millisecond(s)
  } else {
   digitalWrite(8, LOW);
   delay(1000); // Wait for 1000 millisecond(s)
  }
 } else {
  digitalWrite(8, LOW);
  Serial.println(LightSensorVal);
  delay(300); // Wait for 300 millisecond(s)
 }
}
```