

```
Exercise 01:-
void setup()
int i = 11;
pinMode(i, OUTPUT);
pinMode(i+1, OUTPUT);
}
void loop()
for(int i=11; i<=12; i++)
digitalWrite(i, HIGH);
delay(1000);
digitalWrite(i, LOW);
delay(1000); }
}
 00 Q1 | Arduino 1.8.9
                                                       ×
 File Edit Sketch Tools Help
     6 B 2 2
 void setup()
  int i = 11;
 pinMode(i, OUTPUT);
 pinMode(i+1, OUTPUT);
 void loop()
 for(int i=11; i<=12; i++)</pre>
 digitalWrite(i, HIGH);
 delay(1000);
 digitalWrite(i, LOW);
 delay(1000); }
 Sketch uses 986 bytes (3%) of program
 Global variables use 9 bytes (0%) of
```

```
Exercise 02:-
void setup()
for(int i=2; i<7; i++)
pinMode(i, OUTPUT);
}
}
void loop()
{
 for(int i=2; i<7; i++)
 digitalWrite(i, HIGH);
 delay(20);
 digitalWrite(i+1, HIGH);
 delay(20);
 digitalWrite(i+2, HIGH);
 delay(20);
 digitalWrite(i, LOW);
 delay(20);
 digitalWrite(i+1, LOW);
 }
 for(int i=7; i>2; i--)
 digitalWrite(i, HIGH);
 delay(20);
 digitalWrite(i-1, HIGH);
 delay(20);
 digitalWrite(i-2, HIGH);
 delay(20);
 digitalWrite(i, LOW);
 delay(20);
 digitalWrite(i-1, LOW);
 }
}
```

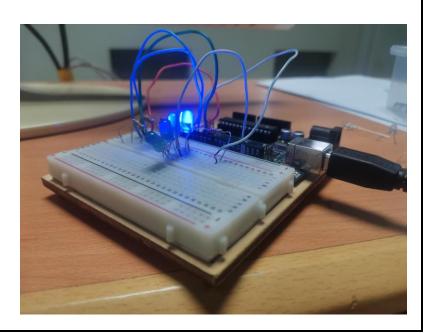
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Exercise 03:-
int ledPin = 2;
int inPin = 1;
int val = 0;
void setup()
pinMode(ledPin, OUTPUT);
pinMode(inPin, INPUT);
void loop()
val = digitalRead(inPin);
if (val == LOW){}
digitalWrite(ledPin, HIGH);
}
else{
digitalWrite(ledPin, LOW);
}
}
                                                                    ×
 🔯 Q3 | Arduino 1.8.9
                                                             File Edit Sketch Tools Help
 int ledPin = 2;
 int inPin = 1;
 int val = 0;
 void setup()
 pinMode(ledPin, OUTPUT);
 pinMode(inPin, INPUT);
 void loop()
 val = digitalRead(inPin);
 if (val == LOW) {
 digitalWrite(ledPin, HIGH);
 else{
 digitalWrite(ledPin, LOW);
```

```
Exercise 04 :-

const int analogInPin = A0;
int sensorValue = 0;
void setup() {

Serial.begin(9600);
}
void loop() {

sensorValue = analogRead(analogInPin);
```

```
Serial.print("\n");
delay(200);
```

Serial.print("sensor = ");
Serial.print(sensorValue);

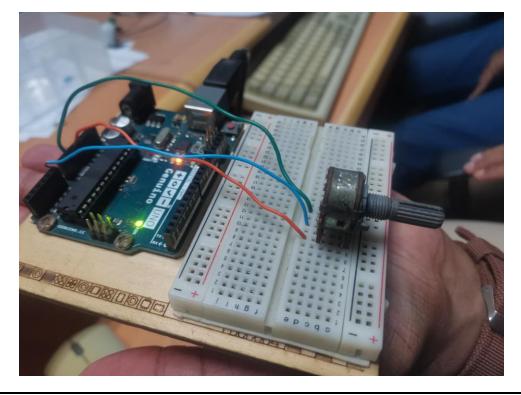
```
⊚ COM4
                                                                                                                                                                                                                                         Q4§
sensor = 1023
sensor = 1023
sensor = 1000
sensor = 948
sensor = 812
sensor = 687
sensor = 567
sensor = 328
sensor = 0
sensor = 88
sensor = 88
                                                                                                                                                                                                                                      const int analogInPin = A0;
int sensorValue = 0;
                                                                                                                                                                                                                                       void setup() {
                                                                                                                                                                                                                                       Serial.begin(9600);
                                                                                                                                                                                                                                       void loop() {
                                                                                                                                                                                                                                      Serial.print("sensor = ");
Serial.print(sensorValue);
Serial.print("\n");
                                                                                                                                                                                                                                       delay(200);
 ☑ Autoscroll ☐ Show timestamp
                                                                                                                                                                         ∨ 9600 baud ∨ Clear output
                                                       Accelerometer

    IR Sensor (Infrared Sensor)

                                                       Pressure Sensor

    Light Sensor

                                                                                                                                                                                                                                       Sketch uses 1930 bytes (5%) of program storage space. Maximum is 3
Global variables use 198 bytes (9%) of dynamic memory, leaving 183
                                                      Ultrasonic Sensor
                                                       Smoke, Gas and Alcohol Sensor
                                                       Touch Sensor
```



```
Exercise 05:-
int inPin = 1;
int ledPin=2;
int val = 0;
void setup()
pinMode(ledPin, OUTPUT);
pinMode(inPin, INPUT);
void loop() {
val = digitalRead(inPin);
if (val == HIGH){
digitalWrite(ledPin, HIGH);
delay(500);
}else{
digitalWrite(ledPin, LOW); }
}
                                                                     ×
  00 Q5 | Arduino 1.8.9
                                                              File Edit Sketch Tools Help
  int inPin = 1;
  int ledPin=2;
  int val = 0;
  void setup()
  pinMode(ledPin, OUTPUT);
  pinMode(inPin, INPUT);
  void loop() {
  val = digitalRead(inPin);
  if (val == HIGH) {
  digitalWrite(ledPin, HIGH);
  delay(5000);
  }else{
  Done Saving.
  Sketch uses 1062 bytes (3%) of program st
  Global variables use 9 bytes (0%) of dyna
                                                Arduino/Genuino Uno on COM4
```