Project 5 ( Push Button )

**Required :**

Push button 1x

Resistor 220 ohm 2x

Arduino uno 1x

Jumper wires

Red led 1x

**Circuit :**

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**Red LED** > PIN 3 & GND

**Push Button** > PIN 2 & 5V & GND

**Code :**

|  |
| --- |
| const int BUTTON = 2;  const int LED = 3;  int BUTTONstate = 0;  void setup()  {  pinMode(BUTTON, INPUT);  pinMode(LED, OUTPUT);  }  void loop()  {  BUTTONstate = digitalRead(BUTTON);  if (BUTTONstate == HIGH)  {  digitalWrite(LED, HIGH);  }  else{  digitalWrite(LED, LOW);  }  } |

implementation experiment with hardware Arduino toolkit :

1 – with one LED :

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2 – with two LED :

Code :

|  |
| --- |
| const int BUTTON = 2;  const int LED = 3;  const int LED2 = 4;  int BUTTONstate = 0;  void setup()  {  pinMode(BUTTON, INPUT);  pinMode(LED, OUTPUT);  pinMode(LED2,OUTPUT);  }  void loop()  {  BUTTONstate = digitalRead(BUTTON);  if (BUTTONstate == HIGH)  {  digitalWrite(LED, HIGH);  digitalWrite(LED2, HIGH);  }  else{  digitalWrite(LED, LOW);  digitalWrite(LED2, LOW);  }  } |

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