

Time in Program	buttonPin	buttonState	lastButtonState	ledState
Beginning before loop()	LOW	LOW set by initial assignment	LOW set by initial assignment	LOW set by initial assignment
	FIRST LOOP (button NOT pressed)			
First Time in loop() button not pressed yet	LOW	LOW set by digitalRead()	LOW	LOW
Check condition of first if	DO NOT enter first if statement			
Last statement before going through loop() again	LOW	LOW	LOW set by lastButtonState = buttonState	LOW
	PRESS BUTTON LOOP - TURN LED ON			
Press Button Loop before entering first if statement	HIGH	HIGH set by digitalRead()	LOW	LOW
Check condition of first if	Enter first if statement since buttonState != lastButtonState			
Check condition on second if	Enter second if since buttonState is HIGH			
Press Button Loop At the end of both if statements	LOW	HIGH	LOW	HIGH turned on by != statement
Press Button Loop Last statement before going through loop() again	LOW	HIGH	HIGH set by lastButtonState = buttonState	HIGH
	LOOP AFTER PRESS BUTTON LOOP (button NOT pressed)			
Next loop() after button press before entering first if statement	LOW	LOW set by digitalRead()	HIGH	HIGH
Check condition of first if	Enter first if statement since buttonState != lastButtonState			
Check condition on second if	DO NOT Enter second if statement since buttonState is LOW			
Last statement before going through loop() again	LOW	LOW	LOW set by lastButtonState = buttonState	HIGH
	PRESS BUTTON LOOP - TURN LED OFF			
Press Button Loop before entering first if statement	HIGH	HIGH set by digitalRead()	LOW	HIGH
Check condition of first if	Enter first if statement since buttonState != lastButtonState			
Check condition on second if	Enter second if statement since buttonState is HIGH			
Press Button Loop At the end of both if statements	LOW	HIGH	LOW	LOW turned on by != statement
Press Button Loop Last statement before going through loop() again	LOW	HIGH	HIGH set by lastButtonState = buttonState	LOW
	LOOP AFTER PRESS BUTTON LOOP (button NOT pressed)			
Next loop() after button press before entering first if statement	LOW	LOW set by digitalRead()	HIGH	LOW
Check condition of first if	Enter first if statement since buttonState != lastButtonState			
Check condition on second if	DO NOT Enter second if statement since buttonState is LOW			
Last statement before going through loop() again	LOW	LOW	LOW set by lastButtonState = buttonState	LOW