

ADAFRUIT INNOVATION LAB

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KEYPAD

LIBRARY:- `#include <Keypad.h>`

FUNCTION:- Here are various functions which are present in keypad library and is used to interface keypad with Arduino. There should be an object created first to access all functions.

syntax:- `Keypad objectName;`

eg:- `Keypad kpad;`

- 1. Keypad():-** This is used to initialize the keypad and map the pins with keypad pins.
syntax:- `Keypad objectName = Keypad(makeKeymap(keysPointer), rowPinArray, columnPinArray, totalRow, totalColumn);`
eg:- `Keypad kpad = Keypad(makeKeymap(keys), rowPins, colPins, 4, 4);`
- 2. getKey():-** This is used to get a single key.
syntax:- `char variableName = objectName.getKey();`
eg:- `char ch = kpad.getKey();`
- 3. getKeys():-** This is used to get the number of keys simultaneously.
syntax:- `char* variableName = objectName.getKeys();`
eg:- `char* ch = kpad.getKeys();`
- 4. isPressed():-** This is used to check whether the key is pressed or not.
syntax:- `bool variableName = objectName.isPresses(key);`
eg:- `bool check = kpad.isPressed(ch);`
- 5. findInList():-** This will find location of a given key from the list of active keys.
syntax:- `int variableName = objectName.findInList(givenKey);`
eg:- `int l = kpad.findInList(ch);`
- 6. waitForKey():-** This function will pause the execution and wait for user to press any key.
syntax:- `char variableName = objectName.waitForKey();`
eg:- `char ch = kpad.waitForKey();`
- 7. numKeys():-** This will scan and give the total number of keys present in key list.
syntax:- `byte variableName = objectName.numKeys();`
eg:- `byte num = kpad.numKeys();`

8. setDebounceTime():- This function is used to set the debounce time of a key. Minimum debounce time is 1ms.

syntax:- *objectName.setDebounceTime(time);*

eg:- *kpad.setDebounceTime(5);*

These are various function which are defined in Keypad.h library and can be used to interface keypad with Arduino UNO.