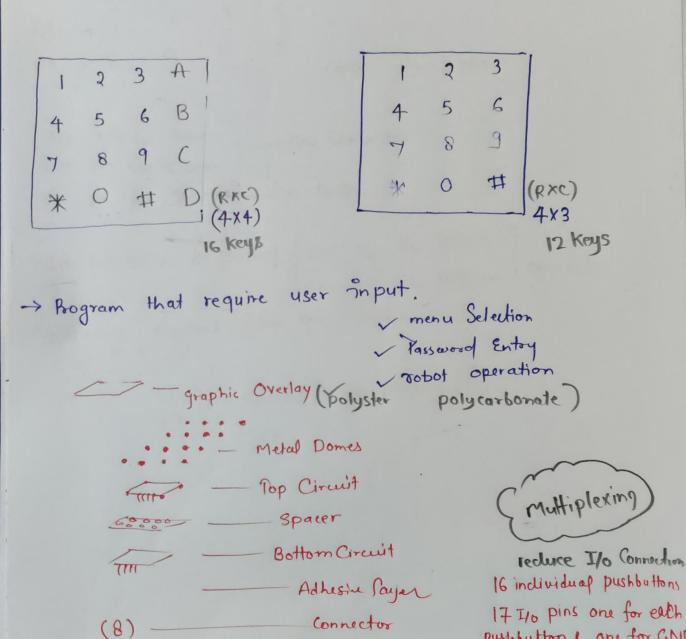
pushbutton + one for GND

For 4x4 - 8 pins Require

INTERFACE KEYPAD (4x4 or 4x3 membrane)

with ARDUINO



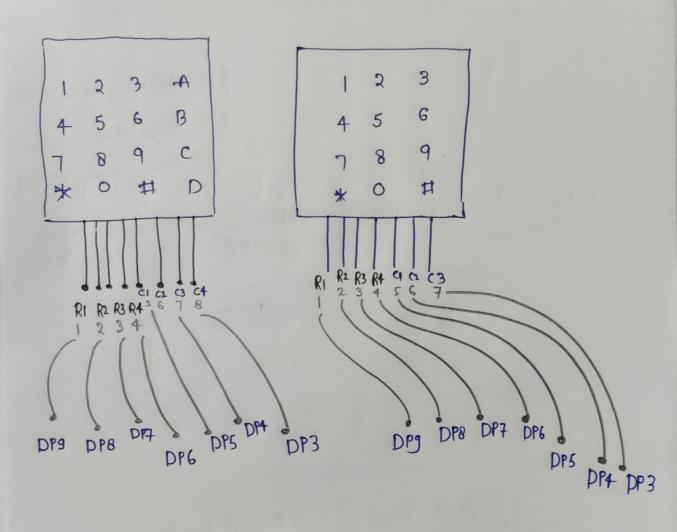
One pin for Column } -> One Rushbutton
One pin for Column } -> GND.

When the button is pressed one of the Rows } connected one of the column connected allowing current flow byw them.

EX: C1 > activated when pressed 4

4x4 4 4x3 Keypad Pin Out

female Dupont Connector. row: pins one on the . Left (dark Strip).



8 pin male to male Dupont ribbon Cable

TALLING KEYPAD LIBRARY

PGA

#include (Keypad.h)

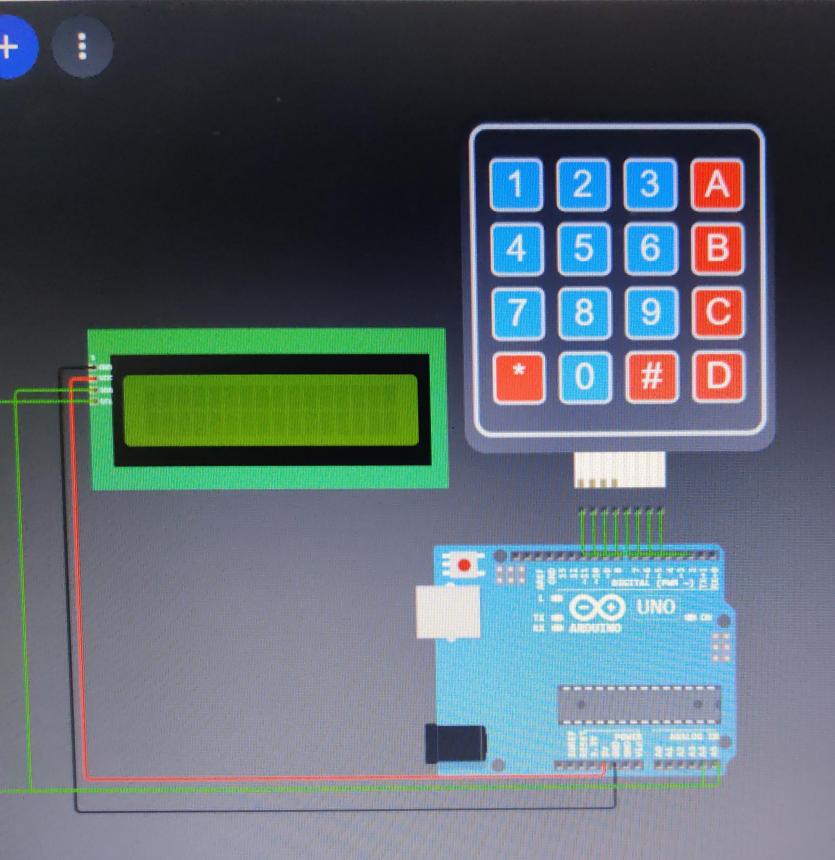
11 mark stanley

sketch > Include Library > Manage Libraries.

```
# include < Keypad. h >
const byte Rows = 4
const byte Columns = 4
  char Keys [Rows] [ (OLUMNS] = $
                                      Key Pad Pin del.
   {'1', '3', '3,'A}
   { '4', '5', '6', 'B'}
   $ 7, 8 9, 63
   { '*', '0', '#', 'D'}
        row Pins [ Rows] = { 9, 8, 7, 6 };
   byte
         Col Pins [ COL SUMNS] = { 5, 4, 3, 2 };
   byte
```

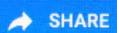
```
Keypad Keypad = Keypad (make Keymap (keys),
                                  row Pins, DP Rowl Array
                                 ColPins, DP column 1 Prop
ROWS, kypad Row Size - 4
                                 COLS ) , Keypool Column Size-4
void setup()
     Serial. begin (9600);
                                          Read the key
Void loop ()
    Chan Key = Keypad- getkey ();
    if ( Key )
          Serial. point (" Key Ressed: ");
          Serial print ( key );
```

```
< Keypad. h >
Some Useful functions for
   char wait Forkey()
                        returns the current State of Ray
  KeyState getState() IDLE.
                         PRESSED .
                        RELEASED
                       -HOLD.
 boolean KeyStateChanged ()
set Hold Time (unsigned int time)
set Debounce Time (unsigned int time)
                                 triggers an event if the
add Event Listner (Keypad Event)
                                 Leypad is und,
```











read_input_from_KEYPAD_PRINT_ON_I
by himanshu4665

```
sketch.ino
             diagram.json
                           libraries.txt Library Manager
   1
       #include <Keypad.h>
       #include <LiquidCrystal I2C.h>
       #include <Wire.h>>
       const byte ROWS = 4; //four rows
   5
       const byte COLS = 4; //four columns
   6
   7
       char keys[ROWS][COLS] = {
         {'1','2','3','A'},
   8
         {'4','5','6','B'},
   9
         {'7','8','9','C'},
  10
         {'*','0','#','D'}
  11
  12
       };
  13
  14
       byte rowPins[ROWS] = {9, 8, 7, 6}; //connect to the row pinouts of the keypad
       byte colPins[COLS] = {5, 4, 3, 2}; //connect to the column pinouts of the key
  15
  16
  17
       //Create an object of keypad
       Keypad keypad = Keypad( makeKeymap(keys), rowPins, colPins, ROWS, COLS );
  18
       LiquidCrystal I2C lcd(0x27,16,2);
  19
  20
  21
       void setup(){
         lcd.init();
  22
         lcd.clear();
  23
         lcd.backlight();
  24
  25
 27
       void loop(){
  28
         lcd.setCursor(1,0);
  29
         char key = keypad.getKey();// Read t
```









```
Keypad keypad = Keypad( makeKeymap(keys), rowPins, colPins, ROWS, COLS );
     LiquidCrystal_I2C lcd(0x27,16,2);
20
     void setup(){
21
       lcd.init();
22
       lcd.clear();
23
       lcd.backlight();
24
25
26
27
     void loop(){
28
       lcd.setCursor(1,0);
29
       char key = keypad.getKey();// Read the key
30
31
       // Print if key pressed
32
       if (key){
33
         lcd.print("Key Pressed : ");
34
         lcd.println(key);
35
36
37
```















