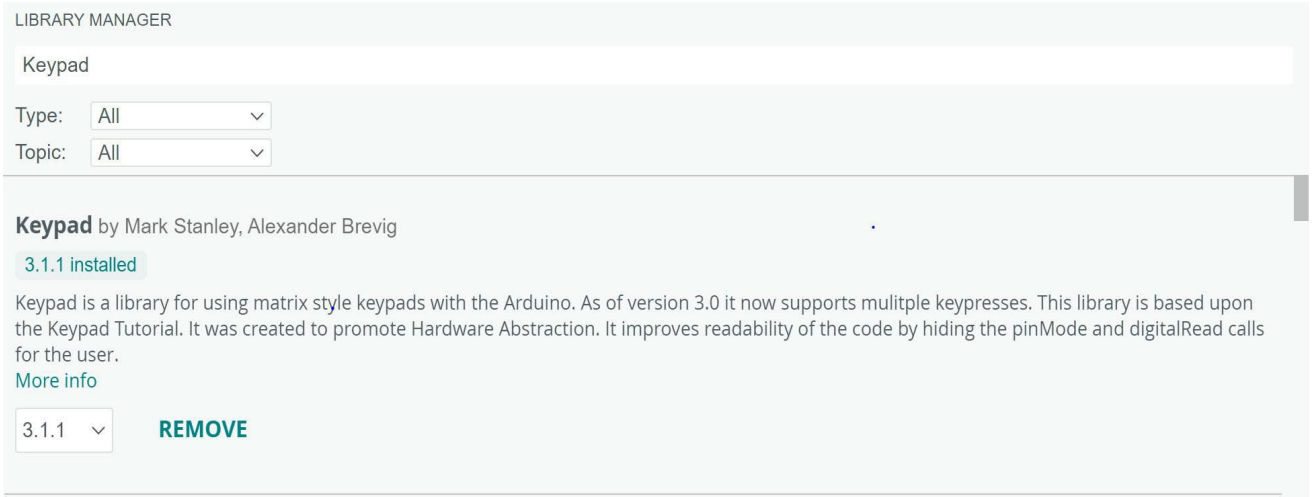
Experiment 12: Develop a program to simulate interfacing with the keypad module to record the keystrokes.

Libraries :



Pin Connections:

Component		**ESP32 Pin**	***Arduino UNO Pin***
Keypad	**R1**	GPIO 14	*D2*
	R2	GPIO 27	*D3*
	R3	GPIO 26	*D4*
	R4	GPIO 25	*D5*
	C1	GPIO 33	*D6*
	C2	GPIO 32	*D7*
	C3	GPIO 19	*D8*
	C4	GPIO 18	*D9*

Code:

```
#include <Keypad.h>
const byte ROWS = 4;
const byte COLS = 4;
char keys[ROWS][COLS] = #include <Keypad.h>
const byte ROWS = 4;
const byte COLS = 4;
char keys[ROWS][COLS] = {
{'1','2','3','A'},
{'4','5','6','B'},
{'7','8','9','C'},
{'*','0','#','D'}
};
byte rowPins[ROWS] = {14, 27, 26, 25}; // Modify as per your wiring
byte colPins[COLS] = {33, 32, 19, 18}; // Avoid GPIOs 34-39
Keypad keypad = Keypad(makeKeymap(keys), rowPins, colPins, ROWS,
COLS);

void setup() {
Serial.begin(115200);
Serial.println("Keypad Ready");
}

void loop() {
char key = keypad.getKey();
if (key) {
Serial.print("Key Pressed: ");
Serial.println(key);
}
}Keypad keypad = Keypad(makeKeymap(keys), rowPins, colPins, ROWS,
COLS);

void setup() {
  Serial.begin(115200);
  Serial.println("Keypad Ready");
}
```

```
void loop() {
  char key = keypad.getKey();
  if (key) {
    Serial.print("Key Pressed: ");
    Serial.println(key);
  }
}
```