Project- Read Text from micro-SD card and display on LCD

Components:

- **Arduino Uno**
- **I2C 16*2 LCD**
- **Micro-SD card Module**
- **Micro-SD card**
- **4 - Push Button**
- **4 - 1k ohm resistors**

Circuit Connection:

I2C 16*2 LCD <---> Arduino Uno

GND <---->GND

VCC<---->+5 V

SDA<---->A4

SCL<---->A5

Micro-SD card module<----> Arduino Uno

GND<----->GND

VCC<----->+5 V

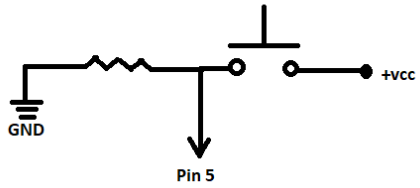
MISO<----->pin 12

MOSI <----->pin 11

SCK <----->pin 13

CS <----->pin 4

Push-Button <-----> Arduino Uno



Push-button 1 <----> pin 5

Push-button 2 <----> pin 6

Push-button 3 <----> pin 7

Push-button 4 <----> pin 8

Push-Button Function

By default, word/minute is set to minimum 200 and maximum 1000.

1. **Button-1 (Speed increase Function)-** When this button is pressed, 50 words will be added each time.
2. **Button-2 (Speed decrease Function)-** When this button is pressed, 50 words will be decreased each time
3. **Button-3 (Pause/Resume Function)-** When this button is pressed, the text will be paused and when pressed again will resume from the same word where it was paused.
4. **Button-4 (Reverse Function)-** When this button is pressed, it will take 10 words back on each press and start reading again from 10 words to forward.