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Q) Print your name & SID on 16x2LCD. Enter this data through Serial monitor also blink your name & SID on LCD.

ANSWER:

```
#include <LiquidCrystal.h>

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

void setup(){

  lcd.begin(16, 2);
  Serial.begin(9600);

}

void loop(){

  if(Serial.available()){

    while(Serial.available()>0){

      lcd.write(Serial.read());
      lcd.noCursor();
      delay(500);
      lcd.cursor();
      delay(500);

    }
```

```
    lcd.setCursor(0,1);


  }

  lcd.noDisplay();

  delay(1000);

  lcd.display();

  delay(1000);


}
```

Short Q / A:

1) What are 4bit Mode and 8bit Mode on lcd?

ANSWER:

In **4bit Mode**, we use only 4 data pins. 8bit character or ASCII divides into two 4 bit nibbles. High nibble sent first then lower nibble.

In **8bit Mode**, LCD has 8 data pins so they accept 8bit data in which we can send character or ASCII value to LCD.

2) For what purpose Vo Pin of 16*2 lcd is used?

ANSWER:

To set the contrast of the screen.

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3) What is the advantage of using 4bit programming mode instead of 8bit?

ANSWER:

The advantage of using 4bit programming mode instead of 8bit is that we only use 4 data pins and the other 4 pins can be used to connect the other components to LCD.