CHAPTER: 14 SD CARD INTERFACING

PRACTICAL: 14A

AIM: To interfacing SD Card using Arduino.

ARDUINO CODE:

```
/**********************
 * Author: Shreejicharan
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 * Time: 6:00
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 **********************/

/* Arduino SD Card Tutorial Example */

#include <SD.h>
#include <SPI.h>

File myFile;

int pinCS = 53; // Pin 10 on Arduino Uno

void setup() {
  Serial.begin(9600);
  pinMode(pinCS, OUTPUT);

  // SD Card Initialization
  if (SD.begin())
  {
    Serial.println("SD card is ready to use.");
  } else
  {
    Serial.println("SD card initialization failed");
    return;
  }

  // Create/Open file
  myFile = SD.open("test.txt", FILE_WRITE);
```
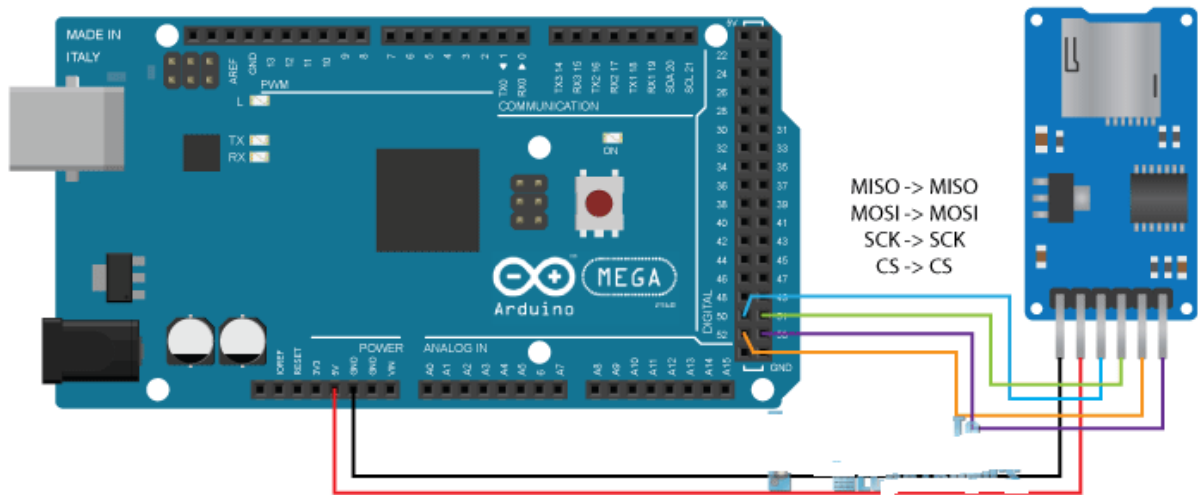
```
  // if the file opened okay, write to it:
  if (myFile) {
   Serial.println("Writing to file...");
   // Write to file
   myFile.println("Testing text 1, 2 ,3...");
   myFile.close(); // close the file
   Serial.println("Done.");
  }
  // if the file didn't open, print an error:
  else {
   Serial.println("error opening test.txt");
  }

  // Reading the file
  myFile = SD.open("test.txt");
  if (myFile) {
   Serial.println("Read:");
   // Reading the whole file
   while (myFile.available()) {
    Serial.write(myFile.read());
   }
   myFile.close();
  }
  else {
   Serial.println("error opening test.txt");
  }

}
void loop() {
 // empty
}
```

SIMULATION: