

```
1 import machine
2 import sdcard
3 import uos
4 """ SPI mode Cytron Maker micro SD socket
5 (description from the board)
6 GP10-SCK (SCLK)
7 GP11-SDI (SDI<---mosi)
8 GP12-SD0 (SD0<---miso)
9 GP15-CSN (chip select)
10 """
11 # Assign chip select (CS) pin (and start it high)
12 cs = machine.Pin(15, machine.Pin.OUT)
13 # Intialize SPI peripheral (start with 1 MHz)
14 spi = machine.SPI(1,
15                 baudrate=1000000,
16                 polarity=0,
17                 phase=0,
18                 bits=8,
19                 firstbit=machine.SPI.MSB,
20                 sck=machine.Pin(10),
21                 mosi=machine.Pin(11),
22                 miso=machine.Pin(12))
23
24 # Initialize SD card
25 sd = sdcard.SDCard(spi, cs)
26 # Mount filesystem
27 vfs = uos.VfsFat(sd)
28 uos.mount(vfs, "/sd")
29 # Create a file and write something to it
30 with open("/sd/test01.txt", "w") as file:
31     file.write("Hello, SD World!\r\n")
32     file.write("This is a test\r\n")
33 # Open the file we just created and read from it
34 with open("/sd/test01.txt", "r") as file:
35     data = file.read()
36     print(data)
37
```