```
// Include the GSM library
#include <GSM.h>

#define PINNUMBER ""

// initialize the library instance
GSM gsmAccess;
GSM_SMS sms;

void setup() {
 // initialize serial communications and wait for port to open:
 Serial.begin(9600);
 while (!Serial) {
   ; // wait for serial port to connect.
 }

 Serial.println("SMS Messages Sender");

 // connection state
 boolean notConnected = true;

 // Start GSM shield
 // If your SIM has PIN, pass it as a parameter of begin() in quotes
 while (notConnected) {
   if (gsmAccess.begin(PINNUMBER) == GSM_READY) {
     notConnected = false;
   } else {
     Serial.println("Not connected");
     delay(1000);
   }
 }

 Serial.println("GSM initialized");
}

void loop() {

 Serial.print("Enter a mobile number: ");
 char remoteNum[20];  // telephone number to send sms
 readSerial(remoteNum);
 Serial.println(remoteNum);

 // sms text
 Serial. print("Now, enter SMS content: ");
 char txtMsg[200];
 readSerial(txtMsg);
```

```
  Serial.println("SENDING");
  Serial.println();
  Serial.println("Message:");
  Serial.println(txtMsg);

  // send the message
  sms.beginSMS(remoteNum);
  sms.print(txtMsg);
  sms.endSMS();
  Serial.println("\nCOMPLETE!\n");
}

/*
  Read input serial
 */
int readSerial(char result[]) {
  int i = 0;
  while (1) {
    while (Serial.available() > 0) {
      char inChar = Serial.read();
      if (inChar == '\n') {
        result[i] = '\0';
        Serial.flush();
        return 0;
      }
      if (inChar != '\r') {
        result[i] = inChar;
        i++;
      }
    }
  }
}
```