

```
// GSM Read v1.2
```

```
#include <SoftwareSerial.h>
```

```
SoftwareSerial mySerial(10, 11);
String msg= String("");
String string = String("Hello");
String immobilizeON = String("Immobilize = 1"); // Immobilize the bike
String immobilizeOFF = String("Immobilize = 0"); // mobilize the bike
String statussms = String("STATUS");
int immoblz = 6;
int connection = 8;
void setup()
{
  mySerial.begin(9600); // Setting the baud rate of GSM Module
  Serial.begin(9600); // Setting the baud rate of Serial Monitor (Arduino)
  delay(100);
  pinMode(immoblz, OUTPUT);
  pinMode(connection, INPUT);
  // digitalWrite(connection,0);
}
```

```
void loop()
{
  unsigned int i=0,c=0;
  char rxdata;
  if (Serial.available()>0)
    switch(Serial.read())
    {
      case 's':
        SendMessage("hello");
        break;
      case 'r':
        RecieveMessage();
        break;
      default : Serial.println("Incorrect data entered");break;
    }
  //Serial.println(digitalRead(connection));
  if(digitalRead(connection) == 1)
  {
    digitalWrite(immoblz,1);
  }
}
```

```

    SendMessage("Warning:Some one opened the fuel tank/seat. Action taken: Bike immobilized.
IMEI:xxxxxxxxxxx1");
    //Serial.println(digitalRead(connection));
    // delay(1000);
}
// else
// digitalWrite(immoblz,0);
while (mySerial.available()>0){
    rxdata=(unsigned char)mySerial.read();
    Serial.write(rxdata);
    if(rxdata== 10)
    {

    }
    else
    msg+=String(rxdata);

}

```

```

if(msg != "\0"){
    Serial.println();
    Serial.println(msg);
    msg.remove(0,47);
    Serial.println();
    Serial.println(msg);
    msg.trim();
    if(msg.equals(immobilizeON)){
        Serial.println(" Engine Immobilized...");
        digitalWrite(immoblz,1);
        SendMessage("Engine no:xxx123 Immobilized Successfully");
        //msg = "";
    }
    else if(msg.equals(immobilizeOFF)){
        Serial.println("Engine mobilized...");
        digitalWrite(immoblz,0);
        SendMessage("Engine no:xxx123 mobilized Successfully");
        // msg ="";
    }
    else if(msg.equals(statussms)){
        int statuspin;
        statuspin = digitalRead(13);
        if(statuspin == 1)

```

```

{
  SendMessage("Engine Status: OFF");
}
else if(statuspin == 0)
{
  SendMessage("Engine Status: ON");
}
}
// else
// Serial.println("Incorrect message rxd ...");
//msg.remove(0,100);
// msg = "";
//Serial.println(msg);
}

}

```

```

void SendMessage(char *ch)
{
  mySerial.println("AT+CMGF=1"); //Sets the GSM Module in Text Mode
  delay(1000); // Delay of 1000 milli seconds or 1 second
  mySerial.println("AT+CMGS=\"+91xxxxxxxx68\r"); // Replace x with mobile number
  delay(1000);
  mySerial.println(ch); // The SMS text you want to send
  delay(100);
  mySerial.println((char)26); // ASCII code of CTRL+Z
  delay(1000);
  // msg = "";
}

```

```

void RecieveMessage()
{
  mySerial.println("AT+CNMI=2,2,0,0,0"); // AT Command to recieve a live SMS
  delay(1000);
  mySerial.println("AT+CMGL=\"REC UNREAD\"");
  delay(1000);
  // msg = "";
}

```