

```
//----- CREATE SERVER -----
```

```
var http = require('http');
var express = require('express');
var app = express();
var server = http.createServer(app);
var io = require('socket.io');
var socket = io.listen(server);
```

```
//----- GLOBAL VARIABLES -----
```

```
// sensor variables
var sensorData;
```

```
//----- SETTING APP RUN PREF -----
```

```
app.engine('ejs', require('ejs').__express);
app.set('view engine', 'ejs');
app.use(express.static(__dirname + '/public'));
app.get('/', function (req, res) {
  res.render('index');
});
```

```
//----- JOHNNY FIVE -----
```

```
var five = require("johnny-five");
var board = new five.Board();
var imu;
```

```
// check for board connection
board.on("ready", function(){
  console.log("board is on!");
  imu = new five.IMU({
    controller: "MPU6050"
  });
```

```
// open socket connection
io.on('connection', function(socket){
  console.log("socket.io connection");
```

```
  // access sensor data
  imu.on("change", function() {

    sensorData = imu.gyro.pitch.angle;
    console.log(sensorData);

  });
});
```

```
// ----- SERVER LISTEN -----
```

```
server.listen(8080);
console.log("Listening on port 8080;");
```