Angular HTTP Client

- Angular supports communication with servers using the HTTP protocol via the browser's
  - XMLHttpRequest (XHR): HttpModule
  - JSONP: JsonpModule
    - Import from @angular/http library
- Operation is asynchronous in nature
- Always delegate data access to a supporting service class
  - Components make use of the services

The HTTP Client

- The HTTP client returns an Observable:

    http.get(<URL>)

        .subscribe(. . .);

- Methods:

    http.get(), http.put(), http.post(), http.delete(),
    http.jsonp(), http.head() . . .

HTTP Response

- The Angular HTTP client follows the Fetch specification for the response object returned by the Fetch function

- That spec defines a json() method that parses the response body into a JavaScript object

  body = res.json()

Error Handling

- Error handling done through catch()

```
http.get(<URL>)
      .map(. . .)
      .catch( . . . )
```

- Process the error in the service and return an error message string to the component through Observable.throw()

- Component that subscribes should then decide how to handle error

```
.subscribe(data => . . .,
      error => . . . );
```