

Practice Async #1.1

WebRequests sync and async

1. Simple **WebRequest** - all operations are **synchronous**
 - Retrieve home page microsoft.com
 - Use WebRequest and WebResponse

```
WebRequest.Create(url)
request.GetResponse();
```

- Read Web response -using StreamReader
- Write content to a file(for ex StreamWriter)
- Measure time of request, get response using Stopwatch

2. **WebRequest** - **async**

- Use async, await and Task class for web request

```
request.GetResponseAsync()
```

- Use async for writing content to a file
- Measure time of request, get response using Stopwatch

Example

```
public async Task SimpleAsync(string url)
{
    var webRequest = WebRequest.Create(url);
    Task<WebResponse> tResp = webRequest.GetResponseAs
ync();

    WebResponse response = await tResp;
    Console.WriteLine("Got the response");
}
```

```
public void SimpleSync(string url)
{
    var webRequest = WebRequest.Create(url);
    WebResponse resp = webRequest.GetResponse();
    Console.WriteLine("Got the response");
}
```