

COMP3331 Lab2

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1 Exercise 1

Not include.

2 Exercise 2

2.1 Question 1

Yes, google setted cookies to browsers.
by

```
Set-Cookie: 1P_JAR=2019-03-03-07; expires=Tue, 02-Apr-2019 07:59:11 GMT; path=/; domain=.google.com
Set-Cookie: NID=162=r6tjRe1OxOkj4KuTXuh8Dag9BwMzS1Ezh1bua7fpX4DRqgnwugvboycJ-
iuVJblG_O5Kl1LDjfEIRZZgaYibJD2pSDEAOJln_ri0UmhJ-zpddpAqeOaTmcFKAATHnoaI7MlwVXtOO0O5-My4T_7p6cA-
gAvlYT3encdet6iAAms; expires=Mon, 02-Sep-2019 07:59:11 GMT; path=/; domain=.google.com; HttpOnly
```

Not, there's no set cookies in ucla.edu.au. But I think it will set cookies, because cookies is part of ancient web technology (now is replaced with localStorage and web browser's database such as indexedDB)

2.2 Question 2

There's 7 cookies setted by google.

URL	Cookie
accounts.google.com	1
google.com	4
google.com.au	1
doubleclick.net	1

2.3 Question 3

None. None site set cookies, Yes, it's consistence.

3 Exercise 3

3.1 Question 1

code: 200, phrase: ok

3.2 Question 2

Last modified: Tue, 23 Sep 2003 05:29:00 GMT

Yes, it contains the DATE field. The date field is when this http message generated or sent. While the Last-Modified is help the cache to grape or update the cache to reduce the network traffic.

3.3 Question 3

Yes, it's persistent. By "Connection: Keep-Alive"

3.4 Question 4

I think it should be - TCP payload (385 bytes), because the browser's js can reach what's the status code of the reuquest. So the browser can received the whole http Headers.

3.5 Question 5

```
<html>\n
Congratulations. You've downloaded the file lab2-1.
    html!\n
</html>\n
```

4 Exercise 4

4.1 Question 1

Nope.

4.2 Question 2

No, it said it's not modified.

4.3 Question 3

Yes.

```
If-Modified-Since: Tue, 23 Sep 2003 05:35:00 GMT\r\n
If-None-Match: "1bfef-173-8f4ae900"\r\n
```

4.4 Question 4

code: 304, phrase: Not Modified No the server didn't return the content of the file, since the local client has the cache of the content and it not been changed since previous request. It's not necessary to transfer the content again to waste the content.

4.5 Question 5

Both are:

```
ETag: "1bfef-173-8f4ae900"\r\n
```

Etag act as a version for that URL. It's use as a version of the url, so if the content of the url is been changed, then the url will have a different ETag.

The value hasn't been changed since the first response.