

INS: Tutorial 4

Question 1

Request

```
1 | GET /local/list.txt HTTP/1.1
2 | Accept: text/*
3 | Host: www.inf.kcl.ac.uk
```

1. This is a request to retrieve the file at `/local/list.txt` using the HTTP 1.1 protocol.
2. The response should be any sub-type of the `text` MIME type.
3. The request is for the web server residing on the host addressed by 'www.inf.kcl.ac.uk'.

Response

```
1 | HTTP/1.0 200 OK
2 | Content-type: text/plain
3 | Content-length: 51
4 |
5 | Item 1
6 | Item 2
7 | ...
```

1. This is a successful response using the HTTP 1.1 protocol.
2. The content of this response is of the `text/plain` MIME type.
3. There are 51 bytes of content in this response.
4. Blank line: the headers are finished, the content is about to start.
5. The content (continued on lines 6 and 7).

Question 2

- `desirable.doc` is stored at `/home/web/department/resources` on a host.
- `www.smiles.ac.uk` and `all.smiles.ac.uk` both resolve to this host.
- The host's HTTP server is running on port 9090.

- The virtual host `www.smiles.ac.uk` maps to `/home/web/department/main`.
- The virtual host `all.smiles.ac.uk` maps to `/home/web`.

The document can be obtained from:

`http://all.smiles.ac.uk:9090/department/resources/desirable.doc`

Question 3

- 48 in hex \rightarrow sA== in base-64.
- 48, 65 in hex \rightarrow SGU= in base-64.
- 48, 65, 6C in hex \rightarrow SGVs in base-64.