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1. <https://github.com/zihan001>
2. 2.31.0. It was already installed.
3. Request was installed. Version was 2.31.0.
4. There is no difference.
5. 301. We must use <http://www.google.com/> to get 200 status code.
6. 301. It is returned by both curl -i and curl -iL. When we curl <http://www.google.com/teapot>, it returns the html code of the website. With the -i flag, it returns the html code along with the http response headers. The status code is 418. Including -L does not change anything as the server has not moved anywhere.
7. Output from the two commands were stored in two respective files and the differences where checked with the diff command. The output was as follows:

< Date: Wed, 13 Sep 2023 23:58:15 GMT

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> Date: Wed, 13 Sep 2023 23:59:00 GMT

19d18

< <P>No form fields.

20a20,21

> <DT>X: <i>&lt;type 'instance'&gt;</i>

> <DD>MiniFieldStorage('X', 'Y')

25a27,28

> <DT> CONTENT\_LENGTH <DD> 3

> <DT> CONTENT\_TYPE <DD> application/x-www-form-urlencoded

37,38c40,41

< <DT> REMOTE\_PORT <DD> 56998

< <DT> REQUEST\_METHOD <DD> GET

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> <DT> REMOTE\_PORT <DD> 57001

> <DT> REQUEST\_METHOD <DD> POST

52c55

< <DT> UNIQUE\_ID <DD> ZQJMlxDfzO82uObbLF@NKAAAAAQ

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> <DT> UNIQUE\_ID <DD> ZQJMxKZRxgtaXoOibSEmowAAAAE

127a131,132

> <DT> CONTENT\_LENGTH <DD> 3

> <DT> CONTENT\_TYPE <DD> application/x-www-form-urlencoded

139,140c144,145

< <DT> REMOTE\_PORT <DD> 56998

< <DT> REQUEST\_METHOD <DD> GET

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> <DT> REMOTE\_PORT <DD> 57001

> <DT> REQUEST\_METHOD <DD> POST

154c159

< <DT> UNIQUE\_ID <DD> ZQJMlxDfzO82uObbLF@NKAAAAAQ

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> <DT> UNIQUE\_ID <DD> ZQJMxKZRxgtaXoOibSEmowAAAAE

-X POST has a few more lines and some changes compared to to first one.

This method is useful for sending data to servers for processing or changing their state as opposed to a GET request where data is retrieved from the server and it’s state is not modified.

1. https://raw.githubusercontent.com/zihan001/lab1-CMPUT404/main/versionfinder.py