1)

The given command is

printf ‘HEAD / HTTP/1.1\r\nHost: en.wikipedia.org\r\n\r\n’ | nc en.wikipedia.org 80

This command gets http header of en.wikipedia.org website by sending an http request.

It consists of two commands: printf and nc(netcat).

Printf just prints formatted strings.In this case,we are piping two commands so that output of printf is taken as input for nc command.

So,the http request ‘HEAD / HTTP/1.1\r\nHost: en.wikipedia.org\r\n\r\n’ is sent to nc command.

nc(netcat) command is used to connect to a server.In this case,it connects to en.wikipedia.org via port 80.It takes the input from printf command i.e. the http request and sends it to en.wikipedia.org.

The server sends back the header of en.wikipedia.org and displays it on the terminal.

The output is:

HTTP/1.1 301 TLS Redirect

Date: Thu, 23 Jan 2020 05:54:07 GMT

Server: Varnish

X-Varnish: 723137139

X-Cache: cp5011 int

X-Cache-Status: int-front

Server-Timing: cache;desc="int-front"

Set-Cookie: WMF-Last-Access=23-Jan-2020;Path=/;HttpOnly;secure;Expires=Mon, 24 Feb 2020 00:00:00 GMT

Set-Cookie: WMF-Last-Access-Global=23-Jan-2020;Path=/;Domain=.wikipedia.org;HttpOnly;secure;Expires=Mon, 24 Feb 2020 00:00:00 GMT

X-Client-IP: 183.82.101.16

Location: https://en.wikipedia.org/

Content-Length: 0

Via: HTTP/1.1 forward.http.proxy:3128

Connection: keep-alive

2)

To get the contents of [www.rediff.com](about:blank) , change the command to

printf ‘HEAD / HTTP/1.1\r\nHost: www.rediff.com\r\n\r\n’ | nc www.rediff.com 80

The output is:

HTTP/1.1 301 Moved Permanently

Server: AkamaiGHost

Content-Length: 0

Location: https://www.rediff.com/

Date: Thu, 23 Jan 2020 05:57:32 GMT

Via: HTTP/1.1 forward.http.proxy:3128

Connection: keep-alive