# **Ques**: Explain what and how the below command does what it does printf ‘HEAD / HTTP/1.1\r\nHost: en.wikipedia.org\r\n\r\n’ | nc en.wikipedia.org 80

# How will you modify the above command to fetch the contents of [www.rediff.com](http://www.rediff.com/)?

**Soln: The provided command is using** printf **and** nc **(netcat) to send an HTTP HEAD request to the Wikipedia server on port 80. The command is structured to inquire about the headers of the root path ("/") on the server.**

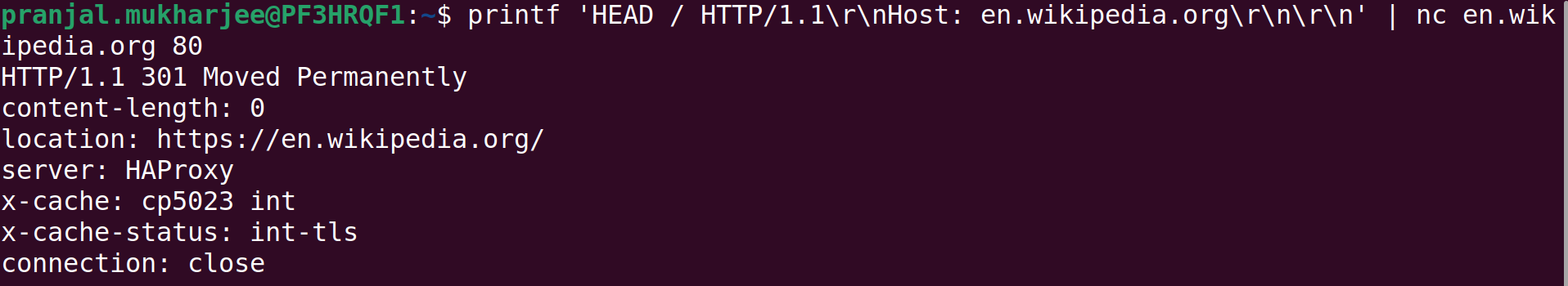
* printf Command:
  + printf **is used to format and print text. In this case, it is used to create an HTTP HEAD request.**
* **HTTP HEAD Request:**
  + **The string passed to** printf **represents an HTTP HEAD request:**
    - * HEAD**: Specifies that the server should only return the headers, not the full content.**
      * /**: The path being requested on the server (root in this case).**
      * HTTP/1.1**: The HTTP version.**
      * Host: en.wikipedia.org**: The host header specifying the target domain.**
  + **Piping to** nc (Netcat):
    - The printf **output is piped (**|**) to** nc**, which is the netcat command.**
    - nc en.wikipedia.org 80**: Connects to the Wikipedia server (**en.wikipedia.org**) on port 80.**

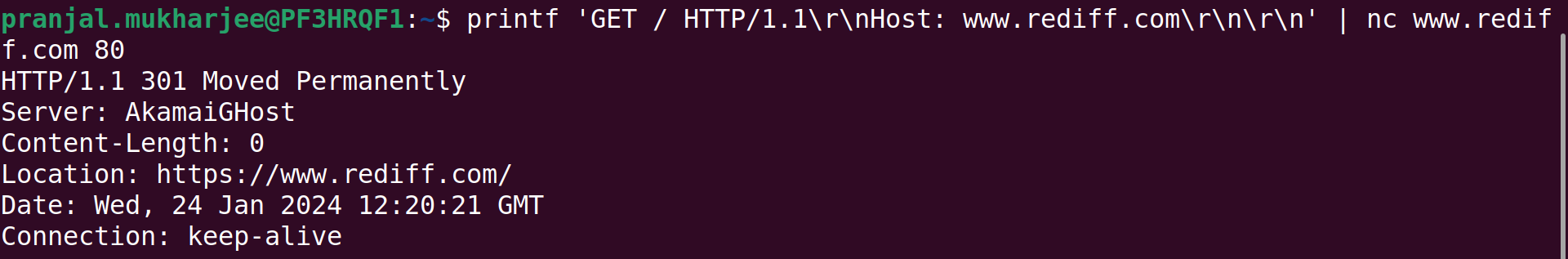
**Modification to Fetch Contents of** [**www.rediff.com**](http://www.rediff.com/)**:**

* To modify the command to fetch the contents of [**www.rediff.com**](http://www.rediff.com/)**, you can change the host header in the** printf **part. For example:**

**printf 'GET / HTTP/1.1\r\nHost: www.rediff.com\r\n\r\n' | nc www.rediff.com 80**

**This command sends an HTTP GET request to the root path ("/") of** [**www.rediff.com**](http://www.rediff.com/) **and prints the content to the terminal.**

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