**EXPERIMENT NO. 1**

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| **Student Name and Roll Number:Harshit Parashar 18CSU081** |
| **Semester /Section:5th semester/ CS-V-CysA** |
| **Link to Code:** |
| **Date:10 Sep. 2020** |
| **Faculty Signature:** |
| **Marks:** |

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| **Objective:** Setting up TOR Network |
| **Outcome:** The students will setup TOR network to perform anonymous browsing. |
| **Problem Statement:** Anonymous browsing using TOR Network |
| **Background Study:** A widely known and accepted solution for staying anonymous on the Internet is Tor (The Onion Router or the onion routing network). TOR is a network of computers around the world that forward requests in an encrypted manner from the start of the request until it reaches the last machine in the network, which is known as an exit node. At this point, the request is decrypted and passed to the destination server. Exit nodes are specifically used as the last hop for traffic |
| **Algorithm/Flowchart:** |
| **Code(Solution):** |
| **Sample Outputs:**  **>>**    **Apt-get update command**    **apt-get install tor tor browser-launcher ,type this command to download and launch the tor**    **After downloading it will sho an error of root ,as bundle is not downloaded as root so to by pass it**  **We will go to the the directory where it is installed,here I have brought the file to the desktop so here I will open the start-tor browser file in mousepad and change the number 0 with 1 in if condition,this will by pass the error and will run the tor**    **After doing the above process again run the file,now connect it and it will run the tor browser** |
| **Question Bank:**  1. TOR stands for \_\_**The Onion Router\_\_\_\_\_\_\_\_\_\_\_\_\_**  a) The Open Router  b) The Onion Reader  c) The Onion Router  d) Tactical Onion Router  2. \_\_\_**Tor\_\_\_\_\_\_\_\_\_\_** makes it likely for its users to hide their physical locations & offering a variety of services like web publishing or an IM maintaining privacy.  a) AnonyMode  b) In-private mode  c) Incognito mode  d) Tor  3. Tor was originally designed for the \_\_**U.S. Navy\_\_\_\_\_\_\_\_\_\_\_** for protecting government communications.  a) U.S. Navy  b) Indian Navy  c) US army  d) Chinese cyber army  4. The \_\_\_\_\_**\_Tor**\_\_\_ is developed for negotiating a virtual tunnel throughout the network by encrypting & arbitrarily bouncing all of its communications via relay networks.  a) AnonyMode  b) Tor  c) Incognito mode  d) In-private mode  5. Tor is usually used by the military, cyber-criminals, activists, journalists, law enforcement officers etc.  a) **True**  b) False  6. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is categorized as an unknown segment of the Deep Web which has been purposely kept hidden & is inaccessible using standard web browsers.  a) Haunted web  b) World Wide Web  c) **Dark web**  d) Surface web |