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|  | Finolex Academy of Management and Technology, Ratnagiri | | | |
| **Department of Information Technology** | | | |
| **Subject:** | **Networking Lab (ITL401)** | | | |
| **Class:** | **SE IT / Semester – IV (CBCGS) / Academic year: 2017-18** | | | |
| **Name of Student:** |  | | | |
| **Roll No:** |  | | **Date of performance (DOP) :** |  |
| **Experiment No:** | | **01** | **Date of checking (DOC) :** |  |
| **Title: To Understand and implement basic network administration commands.** | | | | |
| **Marks:** | |  | **Teacher’s Signature:** |  |

**1. Aim**: To Understand and implement basic network administration commands.

**2. Prerequisites**:

Knowledge of

1. Computer settings

2. Addressing of computer network

**3. Hardware Requirements**:

1. PC with minimum 2GB RAM

**4. Software Requirements:**

1. Ubuntu / Windows installed
2. Microsoft word/ Wordpad
3. Turbo C/ C++

**5. Learning Objectives:**

1. To get familiar with basic network administration commands and demonstrate their use in different network scenarios.
2. To understand the basic terms (IP address, physical address) of networking.

**6. Course Objectives Applicable: LO 1,**

**7. Program Outcomes Applicable: PO2, PO4**

**8. Program Education Objectives Applicable: 1**

**9. Theory: <Handwritten>**

<Source code and screenshots of the output to be added here.>

**11. Learning Outcomes Achieved <Handwritten>**

**1.**

**2.**

**12. Conclusion: <Handwritten>**

1. **Applications of the studied technique in industry – Understand network administration.**
2. **Engineering Relevance – Understanding the basics of computer networking.**
3. **Skills Developed –**

**Understanding the user system requirements and dependencies prior to any actual design and development work.**

**13. Experiment/Assignment Evaluation**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SR** | **Parameters** | **Weight** | **Excellent** | **Good** | **Average** | **Poor** | **Not as per requirement** |
| **Scale Factor ->** | 5 | 4 | 3 | 2 | 0 |
| 1 | Technical Understanding | 25 |  |  |  |  |  |
| 2 | Performance / Execution | 25 |  |  |  |  |  |
| 3 | Question Answers | 20 |  |  |  |  |  |
| 4 | Punctuality | 20 |  |  |  |  |  |
| 5 | Presentation | 10 |  |  |  |  |  |
|  | Total out of 100 -->  #(to be converted as per term-work evaluation applicable to the subject) | | **∑ (Weight \* Scale Factor)/5 = \_\_\_\_\_\_\_\_** | | | | |

**References**:

[1] http://whirlpool.net.au/wiki/windows\_nw\_diag\_cmds

[2] http://www.steves-internet-guide.com/windows-networking-commands/

**Viva Questions**

1. What is IP logical and physical address?
2. What is a function of ping command?
3. Which command is used to display active connections of TCP/IP?