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| 1 | **Write a program for error detection and correction for 7/8 (11/12) bits ASCII codes using Hamming Codes. Use C/C++/Java**  **OR**  **Configure RIP/BGP/OSPF using packet Tracer (Perform Any Two Protocols)** |
| 2 | **Write a program for error detection and correction for 7/8 (11/12) bits ASCII codes using CRC. Use C/C++/Java**  **OR**  **Write a program to analyze following packet formats 1. Ethernet 2. IP 3.TCP 4. UDP .Use (C/C++)** |
| 3 | **Write a program to analyze following packet formats 1. Ethernet 2. IP 3.TCP 4. UDP .Use (C/C++)**  **OR**  **Write a program using TCP sockets for wired network to implement**  **a. Peer to Peer Chat**  **b. Multiuser Chat**  **Use JAVA/PYTHON** |
| 4 | **Write a program using TCP socket for wired network for following**  **a. File transfer**  **b. Calculator (Arithmetic)**  **Use JAVA/PYTHON**  **OR**  **Write a program for DNS lookup. Given an IP address input, it should return URL and vice-versa. Use Java** |
| 5 | **Write a program using UDP sockets for wired network to implement (JAVA/PYTHON)**  **a. Peer to Peer Chat**  **b. Multiuser**  **OR**  **Write a program to analyze following packet formats 1. Ethernet 2. IP 3.TCP 4. UDP .Use (C/C++)** |
| 6 | **Write a program to demonstrate sub-netting and find the subnet masks. (JAVA/PYTHON)**  **OR**  **Write a program to simulate Go Back N of sliding window protocol in peer to peer mode.** **(C/C++/Java)** |
| 7 | **Write a program using TCP socket for wired network for following**  **a. Say Hello to Each other**  **d. Calculator (Trigonometry)**  **Use JAVA/PYTHON**  **Or**  **Use network simulator NS2 to implement: a. Monitoring traffic for the given topology** |
| 8 | **Write a program using UDP Sockets to enable file transfer (Video) between two machines.**  **OR**  **Use network simulator NS2 to implement: Analysis of CSMA and Ethernet protocols** |
| 9 | **Configure RIP/BGP/OSPF using packet Tracer (Perform Any Two Protocols)**  **OR**  **Use network simulator NS2 to implement: a. Monitoring traffic for the given topology** |
| 10 | **Write a program to simulate Go Back N of sliding window protocol in peer to peer mode. (C/C++/Java)**  **OR**  **Write a program using TCP socket for wired network for following**  **a. File Transfer**  **d. Calculator (Arithmetic)** |
| 11 | **Configure RIP/BGP/OSPF using packet Tracer (Perform Any Two Protocols)**  **OR**  **Write a program for error detection and correction for 7/8 (11/12) bits ASCII codes using CRC.** |
| 12 | **Write a program to simulate selective repeat of sliding window protocol in peer to peer mode. (C/C++/Java)**    **OR**  **Write a program to analyze following packet formats 1. Ethernet 2. IP 3.TCP 4. UDP .Use (C/C++)** |
| 13 | **Write a program for error detection and correction for 7/8 (11/12) bits ASCII codes using CRC. Use C/C++**  **OR**  **Write a program to demonstrate sub netting and find the subnet masks. (JAVA/PYTHON)** |
| 14 | **Write a program for error detection and correction for 7/8 (11/12) bits ASCII codes using CRC. Use C/C++**  **OR**  **Write a program to analyze following packet formats 1. Ethernet 2. IP 3.TCP 4. UDP .Use (C/C++)** |
| 15 | **Write a program using UDP sockets for wired network to implement (JAVA/PYTHON)**  **a. Peer to Peer Chat**  **b. Multiuser chat**  **OR**  **Write a program for DNS lookup. Given an IP address input, it should return URL and vice-versa. Use Java** |
| 16 | **Write a program using TCP socket for wired network for following**  **a. Say Hello to Each other**  **d. Calculator (Trigonometry)**  **Use (C/C++)**  **Or**  **Use network simulator NS2 to implement: a. Monitoring traffic for the given topology** |
| 17 | **Write a program to simulate Go Back N of sliding window protocol in peer to peer mode. (C/C++/Java)**  **OR**  **Configure RIP/BGP/OSPF using packet Tracer (Perform Any Two Protocols)** |
| 18 | **Write a program for error detection and correction for 7/8 (11/12) bits ASCII codes using Hamming Codes. Use C/C++**  **OR**  **Configure RIP/BGP/OSPF using packet Tracer (Perform Any Two Protocols)** |
| 19 | **Write a program using TCP sockets for wired network to implement (JAVA/PYTHON)**  **a. Peer to Peer Chat**  **b. Multiuser Chat**  **OR**  **Write a program for DNS lookup. Given an IP address input, it should return URL and vice-versa. Use Java** |
| 20 | **Write a program to demonstrate sub netting and find the subnet masks. (JAVA/PYTHON)**  **OR**  **Write a program using TCP socket for wired network for following**  **a. File transfer**  **b. Calculator (Arithmetic)** |
| 21 | **Write a program to simulate selective repeat of sliding window protocol in peer to peer mode.**  **AND**  **Configure RIP/BGP/OSPF using packet Tracer (Perform Any Two Protocols)** |
| 22 | **Write a program using TCP sockets for wired network to implement (JAVA/PYTHON)**  **a. Peer to Peer Chat**  **b. Multiuser Chat** |
| 23 | **Write a program using UDP sockets for wired network to implement (JAVA/PYTHON)**  **a. Peer to Peer Chat**  **b. Multiuser Chat**  **OR**  **Write a program to simulate selective repeat of sliding window protocol in peer to peer mode.** |
| 24 | **Use network simulator NS2 to implement: a. Monitoring traffic for the given topology**  **OR**  **Write a program for DNS lookup. Given an IP address input, it should return URL and vice-versa. Use Java** |
| 25 | **Write a program to demonstrate sub netting and find the subnet masks. (JAVA/PYTHON)**  **OR**  **Write a program to simulate selective repeat of sliding window protocol in peer to peer mode.**  **(C/C++/Java)** |
| 26 | **Configure RIP/BGP/OSPF using packet Tracer (Perform Any Two Protocols)**  **OR**  **Write a program using TCP socket for wired network for following**  **a. File transfer**  **b. Calculator (Arithmetic)**  **(C/C++/Java)** |
| 27 | **Write a program to analyze following packet formats captured through Wire shark for wired network. 1. Ethernet 2. IP 3.TCP 4. UDP .Use (C/C++)**  **OR**  **Write a program for DNS lookup. Given an IP address input, it should return URL and vice-versa. Use Java** |
| 28 | **Write a program using UDP Sockets to enable file transfer (image) between two machines. Use (C/C++)**  **OR**  **Write a program to demonstrate sub netting and find the subnet masks. (JAVA/PYTHON)** |