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| S.NO | Date Of Experiment | Date of Submission | Experiment | Page No. | Marks | Sign |
|------|--------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|------|
| 1. | 08-01-24 | 22-01-24 | Write a C program that contains a string (char pointer) with the value "Hello world." The program should XOR each character in this string with index 0 and display the result | | | |
| 2. | 08-01-24 | 22-01-24 | Write a C program that contains a string (char pointer) with the value "Hello world". The program should perform a bitwise AND operation with each character in this string using the value 127 and display the result. | | | |
| 3. | 22-01-24 | 29-01-24 | Encrypt the message "PAY" using Hill cipher with the following key matrix and show the decryption to formulate the original plaintext $K = \begin{bmatrix} 17 & 17 & 5 \\ 21 & 18 & 21 \\ 2 & 2 & 19 \end{bmatrix}$ | | | |
| 4. | 29-01-24 | 05-02-24 | Write a Java program to perform encryption and decryption using substitution cipher | | | |
| 5. | 29-01-24 | 05-02-24 | Write a C/Java program to implement Caesar Cipher. | | | |
| 6. | 29-01-24 | 05-02-24 | Write a C/Java program to implement Affine Cipher with equation $c = 3x + 12$. | | | |
| 7. | 29-01-24 | 05-02-24 | Write a C/Java program to implement Playfair Cipher with key "ldrpl". | | | |
| 8. | 05-02-24 | 12-02-24 | Write a C/Java program to implement Polyalphabetic Cipher. | | | |
| 9. | 05-02-24 | 12-02-24 | Write a C/Java program to implement AutoKey Cipher. | | | |
| 10. | 05-02-24 | 12-02-24 | Write a C/Java program to implement the Rail fence technique. | | | |
| 11. | 05-02-24 | 12-02-24 | Write a C/Java program to implement the Simple Columnar Transposition technique. | | | |
| 12. | 05-02-24 | 12-02-24 | Write a C/Java program to implement the Advanced Columnar Transposition | | | |

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| | | | technique. | | | |
| 13. | 12-02-24 | 26-02-24 | Write a C/Java program to implement the DES algorithm logic. | | | |
| 14. | 26-02-24 | 04-03-24 | Write a C/Java program to implement the Rijndael algorithm logic. | | | |
| 15. | 04-03-24 | 11-03-24 | Write a C/Java program to implement Euclidean Algorithm. | | | |
| 16. | 04-03-24 | 11-03-24 | Write a C/Java program to implement Advanced Euclidean Algorithm. | | | |
| 17. | 11-03-24 | 01-04-24 | Write a C/Java program to implement Simple RSA Algorithm with small numbers. | | | |
| 18. | 01-04-24 | 08-05-24 | Calculate the message digest of a text using the SHA-1 algorithm in Java. | | | |
| 19. | 01-04-24 | 08-05-24 | Calculate the message digest of a text using the MD5 algorithm in Java. | | | |