

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cryptography and Network Security Laboratory - 21CSL66

LIST OF PROGRAMS (PART-A)

- Write a C program that contains a string (char pointer) with a value 'Hello world'.
 The program should AND, OR and XOR each character in this string with 127 and display the result.
- 2. Write a Java program to perform encryption and decryption using the following algorithms:
 - a. Ceasar cipher b. Play fair cipher
- 3. Write a C program to implement the following:
 - a. Vigenere Cipher using a Vigenere table.
 - b. Rail fence Cipher using row and column transformation.
- 4. Write a C program to implement encryption and decryption using Hill Cipher method.
- 5. Write a C program to implement DES algorithm.
- 6. Write a Java program to implement AES algorithm.
- 7. Write a Java program to implement RSA algorithm logic.
- 8. Implement Diffie-Hellman key exchange mechanism using HTML and Java script.
- 9. Calculate the message digest of a text using the SHA-512 algorithm in Java.
- 10. Calculate the message digest of a text using the MDS algorithm using Java.