
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cryptography and Network Security Laboratory – 21CSL66**LIST OF PROGRAMS (PART-A)**

1. 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.