Cp project

**Project name:** encryption of message and file

**Aim of the project :** this project focuses on encryption of a given input message or input file using four encryption methods they are rsa, number encryption, Caesar cipher, encryption using specific characters.

**Project contribution:**

Shivathmika : RSA

Samkruthi:number encryption

Karthik sharma: Caesar cipher

Jupaka Ranjith: encryption using specific characters

**Project description:**

**Functions used:**

**Void load():**

This function creates a loading like sought of page using gotoxy function

**Void menu():**

This function displays a menu of the four methods of encryption

1. Rsa
2. Number encryption
3. Caesar cipher
4. Encryption using specific character’s

And enable users to select a particular method of encryption .

**Void rsa():**

This function first enables users to select either encryption of message or file using switch case.in both case it implements the following algorithm for encryption.

First it asks user to enter two prime numbers. Then it calcululates n=product of primes. If p,q are primes then calculates totient = (p-1)\*(q-1) and for en<totient it increases en value and do encrption as follows

Encryption c = (msg ^ en) % n

Here c= character after encryption

msg=character of the message or file.

en=encrypt value

n=p\*q

**void num\_encrpt():**

this function implements following algorithm and encrption result in numbers.

First it asks user for number input and then it increases the ascii value of particular character in file or message to that value and prints the ascii value of it.

**Void Caesar\_cipher():**

This function implements Caesar cipher algorithm for encrption

In this a character of ascii of each character is increased by user entered key and it also make sure that the final ascii value lies between alphabets only and final result of encrption will be in alphabets.

**Void encrpt\_sc():**

This function implements an algorithm as follows asking user to enter two characters and increase the ascii value of character by first character ascii if it is even and by second character ascii if its ascii is odd and prints the character of the resulted ascii value.