

## ASSIGNMENT-2

Dear Student, please note that Assignment-1 is compulsory and you'll have to submit any one from Assignment 2 or 3 also.

### Exercise: 1

Write a program to use en-cryptography techniques so that user feed some strings that can be converted into encrypted format. And then decrypt the data also.

**Description:** by using the c language write a program so that user accept the data from the user and by using any algorithm convert the data in encrypted format and after that convert the encrypted data into decrypted format also

Let the algorithm will be

e.g. for encryption

Ch=ch+3

e.g. for decryption

ch=ch-3

**Time Duration:** 2 hrs.

### Exercise: 2

Use Reverse Engineering techniques to edit a file and try to crack it.

**Description:** Use any Reverse Engineering tools and open the file in it to edit and crack it. You can use hex workshop or Resource Hacker or any one you like.

**Time duration:** 3 hrs.

### Exercise: 3

Use Sniffers to analyze network traffic and try to get some password files.

**Description:** Use some network analyzing tools (sniffers)

Time duration 4 hrs

### Exercise: 4

Try to install the Trojans on the remote computer without knowing the username and password of that computer, by scanning the open/close ports on that PC. Submit the document of all your job action taken.

**Description:** To install a Trojan on remote PC first try to scan that particular PC

Try to install the Trojans on the remote computer on the network & after that scan PC again for the open ports. Fetch the data from that particular PC without knowing the username & password. Create documentation for this case study.

**Time Duration:** 6 hrs.

## ASSIGNMENT-3

Dear Student, please note that Assignment-1 is compulsory and you'll have to submit any one from Assignment 2 or 3 also.

### Exercise: 1

Try to break into the administrator account and recover passwords of all the users' account, when you are given a restricted account.

**Description:** Try to rename or change SAM file to get in to administrative rights or use dictionary or brute force attacks to get administrative passwords.

**Time Duration:** 3 hrs.

### Exercise: 2

There is a file on one of the system in LAN, try to download it on your system. After downloading it on your system analyzes it, & find out the hidden content in the file & try to extract the hidden content.

**Description:** Copy the file containing hidden data from LAN & try to extract the hidden content using steganographic (ex. S-tool) tools.

**Time duration:** 2hrs.

### Exercise: 3

There are some excel sheets which are password protected and these sheets are again zipped which is also password protected. Try to break & extract the file & break the password.

**Description:** Use some Advance Office Password Recovery tool and Advance Zip Password Recovery tool to crack passwords.

**Time duration:** 4 hrs.

### Exercise: 4

What is Cryptography? Explain in details different types of cryptography with examples. Explain in detail RSA algorithm.

**Time duration:** 4 hrs.