

RAMCO INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

Academic Year: 2019-2020 (Odd Semester)

INNOVATIVE TOOLS

Degree, Semester & Branch: VII Semester B.E. Computer Science and Engineering

Course Code & Title: CS6701 Cryptography and Network Security

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TOPIC: CAESAR CIPHER

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Meaning of Role Play

Role-play is a technique that allows students to explore realistic situations by interacting with other people in a managed way in order to develop experience and trial different strategies in a supported environment.

Definition of Role Play

Role play is an educational technique in which people spontaneously act-out problems of human relations and analyze the enactment with the help of other role players and observers.

When Should Role Playing Be Used?

- Role playing is effective when the topic involves person to person communication or interactions.
- Role play can allow everyone to participate.
- The overall mood a training session can be improved by the excitement that role playing provide.

Steps of Role Play Model of Teaching

- Selection of the problem
- Constructing of role play situation
- Casting the players
- Briefing
- Role play action
- Discussion and analysis

Caesar Cipher

The Caesar Cipher technique is one of the earliest and simplest methods of encryption technique. It's simply a type of substitution cipher, i.e., each letter of a given text is replaced by a letter some fixed number of positions down the alphabet. For example with a shift of 1, A would be replaced by B, B would become C, and so on.

$$C = (P+K) \bmod 26$$

$$P = (C-K) \bmod 26$$



In our class the students are actively participated in the Role play which clearly explains the Caesar Cipher. In this role play we took a example for Caesar Cipher plain text is “INDIA” and key is 3. The first student act as a character “I”, second student act as a character “N”, third student act as a character “D”, fourth student act as a character “I” and fifth student act as a character “A”. In this example we are using Key is 3 so when we are applying the key, the first character (Student) move three position right (which means add plus three with the position), the Second character (Student) move three position right and so on.



