## Pricked North

The implement upgress appear substitution Technique.



Date: Practical No.4 Nim: To implement Vignere cipher Substitution Techniques. Vigenore cipher is a method of encrypting alphabetic text. IT was a simple form of polyalphabetic substitution. A polyalphabetic cipher in any cipher based on Substitution using mutipe substitution alphabets. The encryption of the extiginal test is done using the vigenere square as vigenère table. The table consist of the alphabets uniteen out is times In different rows, each alphabet shifted cyclially to the lest compared to the previous alphabet, corresponding to the 26 possible caesas cipies, At different points in the energyption process, the appear uses a different alphabet from one of the now. The alphabet wed at 19th point depends on a repeating tequesids. The steps involved are as follows: (n) water the plundent. (3) Un the printest and the key letter to select a row and a solumn in the vigeners table 3 The Bout letter of the plaintest is the first now and the tey is the first blumm. For example is the plaintest as Intelligant and the key in R. then the first town noullos set book I ation though that one the selling will be the one that sacrets with R. The first letter of cipnordext will be the letter where the first row and column intersect. In the case of own example that will be the letter ?. (3) you, this process is continued till the entire plaintext is turned into a ciprestert. For IMTELLIPRAT, that go No. will be ZVGXPWTXPAT.



Date : Example: sample Input and output: daintext Key ciphodext 2 V Continon: The concept of vignore's eighter implemented successfully. Viva Question: O What is Vigner's cipher? Vignetic cipher as a method of encrypting alphabetic text. It was a simple form of polyalphabatic substitution. The encryption of the original text in danc using the viganere square as vigenere table. (3) what is advantages of Vigner's explicit ? -> 1 I is more complex than the coexer ciprer. The entrupt a message more securely than the appart appear. 3 17 has large key spare and it in largery metablisher uncrackery without knowledge of method. 3 what is disodvantages of vigner's eigher? -> 10 modern camps analysis dechniques such as boute-force and other can efficiently break the vigerese Cipher given enough ciphestext and · Sound porafersty nas 3) key length and key repeating paintern 3) It lacks the sophisticated security feature found in moder czyptographic algorithm.