| | NAME: Abey Greorge SUBJECT: M-2 ISP PAGE NO: |
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| 0,7 | What is Diffic - Hollow I have a distribution |
| | What is Diffie-Hellman key exchange, also called Diffie Some examples |
| ナ | Diffre - Hellow Vision examples exchange also talled |
| | new and exchange, also called exponential |
| Exchand. | and |
| 8.200 | produce doingolds to |
| 3900 | That are component |
| untrolle | took of a could be code breaker mathematically |
| ar a | As the assistance of the code breaker mathematically |
| 81 1 | to end is used |
| a scene | Sender and the secret key between the |
| nion | The enchance of agaret les algorithm facilitate |
| 2 | Sender and the receiver. The algorithm facilitates the exchange of seeret key coithout actually transmitting it: |
| Sommes of | Some rosult to any two Diet while |
| 12 ONTO | Examples in the land of the |
| U | D This was a second of the sec |
| 0 | Credit card transaction email. |
| A2: | Examples: Credit card transaction email: |
| 0,29 | In a diffie - Hellman key Enchange Alike and |
| S25 | In a diffie- Hellman key Enchange, Alice and Bob have chosen prime g=17 and |
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| 0,2° | In a diffie- Hellman key Enchange, Alice and Bob have chosen prime q=17 and primitive root = 5. If Alice's Secret key is 4 and Bob's Secret leay is 6 what is the Secret key they exchanged? Option 1.7 46 |
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_ROLL NO.:___ TOPIC:_____ DATE:_____ TERM:____ ASSIGNMENT NO. By: Multiplication using Lambda.

> n= lambda Da, b: a * b

> print (x(5,6))

State:

State:

Willies Hellman Vey exchange. I To implement Diffier Hellman, the two end users Alice and Bob, while communicating over a Chaynel they know to be private, mutually
agree on positive whole mulber and g is
a generalor of p The generator g is a number
that when vaised to positive whole mumber
powers less than p, never produces the
Same result too any too such whole rumbers
the same sesult for any too such whole rumbers

q is usually small: Bit is adoffie Hellman kein - Enchange singe an -> Public key available = P. G. -> Public keys available P. G. > Private 10ey selected = a > Private key selected = a > Krivate (cey severes or person to the severe of the seve ka= ya mod P Algebraically, it can be shown that E; = (P; + k;) rund 2 TOCCALLER : D: : (El + 12)

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| TOPIC:DATE:TERM: ASSIGNMENT NO.: | |
| Obj Cohat is vienere Cipher State its formula. Emplain with example | |
| -> Vigenere Ciphere is a method of encrypting | |
| alphabetic text. It asks a shuple form of | |
| alia al al effe Substitution. It oply alphabetic cial a | |
| is an cipher based on substitution using | |
| authors substitution alphabets. The encryoffer of | |
| the original text is done using the Hands Sou | 280 |
| or higherere table. (1931) NOUTO | |
| The table consists of the alphabets written out | |
| 26 times in différent rows, each apparet | |
| Slifted cyclically to the left compared to | |
| the previous alphabet, corresponding to the 26 | |
| possible caeser liphers. It different points in | |
| no envoyotron process the cipier uses a | |
| different alphabet from one of the rows. | 04 |
| The alphabet well at each point depends | on |
| No alphabet well at eacht point depends | |
| | |
| figut: Flounte 20 GEET STORGEEKS | |
| Traut: Plaintent: GEEKSFORGEEKS keyword: AYUSH Output: Cipherbext: GCYCZFMLYLEIM | |
| Output: Upherbest, orcic LYMLILEIM | ۸ |
| for generating key, the given keyword is repeated in a circular manner until it matches to length of the plain tent. The seyword 'Ayush' generated the key "Ayush Ayush | 24 |
| in a circular mouner cutt it mereles 12 | 9 |
| length of the plain tent | |
| The Segwood AYUSH generates the key AYUST | F_ |
| Mas Ayush Ayush Ayush Ayu Layusha - how - rang | |
| print ("liphentiend: "Ciphen test) | |
| Excreption: The plaintext (P) and key (K) are as | ldea |
| to sunduly 26 Ei = (Pi+ ki) mod 26 | |
| Encryption: The plaintent (P) and key (K) are and to module 26' E; = (P; + k;) mod 26 | |
| Decryption: Di= (:E; - K; + 26) mod 26 | |
| Decryption of Co | |
| eg. string = "GEEKSFORGEEKS" Keyword = "SHARA ciphertout : YLEBSSGYGVEXK. | 14) |
| G. Stille FSTUFGIOCES 1-51 WOW STILLEN | 1 7 |
| ciphertour. The BOSONTONE AR. | |
| | 1000 |

Sting = "GEEKSFORGEEKS".

| Conite Encryption code for vigenore cyller
| String = "GEEKSFORGEEKS".
| Compared = "SHARANO" def generate key (string, key):

| key = list (key) |

| if len (string) == pen (key) |

| return (key) |

| else | for in range (len(string)-ten(key):

key append (key (i 1. len (key))

return ("" join (key)) def energet_cipherText(8tring, key): det energet general = []

cipher = bent = []

for i'in rounge (len(8tring)):

A = ((ord(String[i])) + ord(key[i]))7.26)+

ord('A) return ("". join (dpher_text)) key = generate Key (string, keyword) print ("Original Message", String)

print ("Keyword", Leyword)

cipher_tent = encrypt cipher Text (String, key)

print ("Liphertent:" Cipher text) Original Message: GEEKSFORGEEKS Icanword: SHARAN Oyther Text: YLEBS3676VEXK 2. 3 ming = "GEE KSTOPGEEKS" Legunsod = "S