```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac caesarCipher.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java caesarCipher
Simulating Caesar Cipher

Input : Anna University
Encrypted Message : Dqqd Xqlyhuvlwb
Decrypted Message : Anna University
PS E:\Nithiya\desktop\sem 7\SECLAB> |
```

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac playfairCipher.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java playfairCipher
Simulating Playfair Cipher

Input Message : Security Lab
Encrypted Message : EABPUGYANSEZ
Decrypted Message : SECURITYLABX
PS E:\Nithiya\desktop\sem 7\SECLAB>
```

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PS E:\Nithiya\desktop\sem 7\SECLAB> javac hillCipher.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java hillCipher
simulation of Hill Cipher

Input message : SecurityLaboratory
padded message : SECURITYLABORATORY
encoded message : EACSDKLCAEFQDUKSXU
decoded message : SECURITYLABORATORY
PS E:\Nithiya\desktop\sem 7\SECLAB>
```
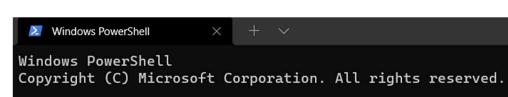
```
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac vigenereCipher.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java vigenereCipher
Simulating Vigenere Cipher

Input Message : SecurityLaboratory
Encrypted Message : NMIYEMKCNIQVVROWXC
Decrypted Message : SECURITYLABORATORY
PS E:\Nithiya\desktop\sem 7\SECLAB>
```

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac railFenceCipher.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java railFenceCipher
Simulating Railfence Cipher

Input Message  : Anna University, Chennai
Encrypted Message : An nvriy hnanaUiest,Ceni
Decrypted Message : Anna University, Chennai
PS E:\Nithiya\desktop\sem 7\SECLAB> |
```
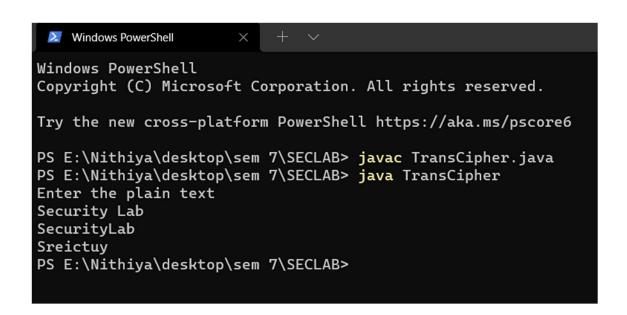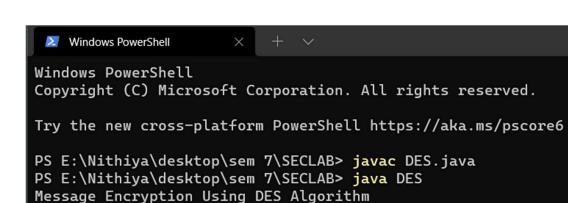
```
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac TransCipher.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java TransCipher
Enter the plain text
Security Lab
SecurityLab
Sreictuy
PS E:\Nithiya\desktop\sem 7\SECLAB>
```

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac DES.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java DES
Message Encryption Using DES Algorithm

Message [Byte Format] : [B@c2e1f26
Message : Secret Information
Encrypted Message: [B@3d012ddd
Decrypted Message: Secret Information
PS E:\Nithiya\desktop\sem 7\SECLAB> |
```
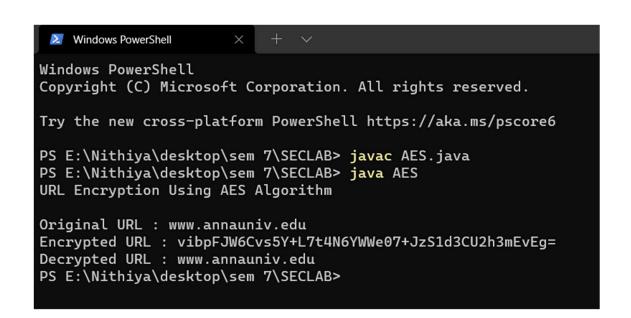
```
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac AES.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java AES
URL Encryption Using AES Algorithm

Original URL : www.annauniv.edu
Encrypted URL : vibpFJW6Cvs5Y+L7t4N6YWWe07+JzS1d3CU2h3mEvEg=
Decrypted URL : www.annauniv.edu
PS E:\Nithiya\desktop\sem 7\SECLAB>
```
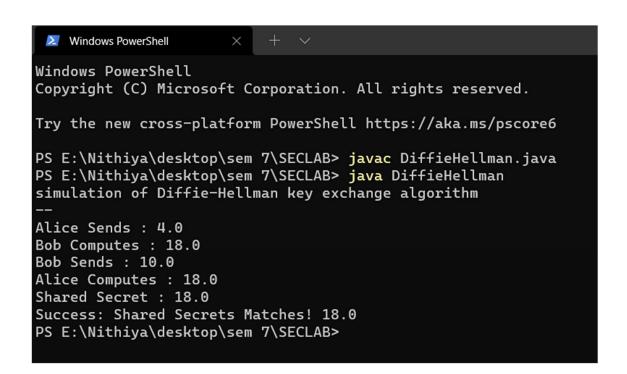
RSA Algorithm

Implemented Using HTML & Javascript

Enter First Prime Number: `53`

Enter Second Prime Number: `59`

Enter the Message(cipher text):
[A=1, B=2,...]   `89`

Public Key: 3127

Exponent: 3

Private Key: 2011

Cipher Text: 1394

[Apply RSA]

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac DiffieHellman.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java DiffieHellman
simulation of Diffie-Hellman key exchange algorithm
--
Alice Sends : 4.0
Bob Computes : 18.0
Bob Sends : 10.0
Alice Computes : 18.0
Shared Secret : 18.0
Success: Shared Secrets Matches! 18.0
PS E:\Nithiya\desktop\sem 7\SECLAB>
```

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac sha1.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java sha1
Message digest object info:

Algorithm=SHA1
Provider=SUN version 12
ToString=SHA1 Message Digest from SUN, <initialized>


SHA1("")=DA39A3EE5E6B4B0D3255BFEF95601890AFD80709

SHA1("abc")=A9993E364706816ABA3E25717850C26C9CD0D89D

SHA1("abcdefghijklmnopqrstuvwxyz")=32D10C7B8CF96570CA04CE37F2A19D84240D3A89

PS E:\Nithiya\desktop\sem 7\SECLAB> |
```

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Nithiya\desktop\sem 7\SECLAB> javac CreatingDigitalSignature.java
PS E:\Nithiya\desktop\sem 7\SECLAB> java CreatingDigitalSignature
Enter some text
Hi how are you
Digital signature for given text: 0<☺Lwv?_??
??Z‼??8?cR☺hG??m ?☺Lt??ZR?]????☺♥???T2!?C?qq↓ia
PS E:\Nithiya\desktop\sem 7\SECLAB> |
```