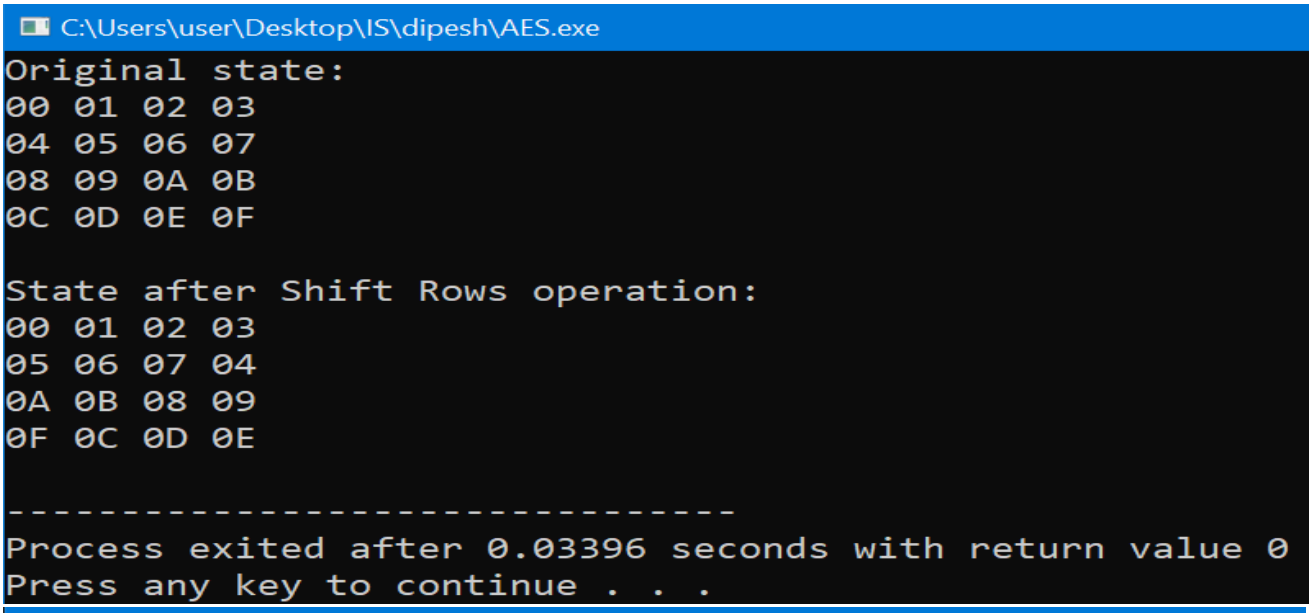
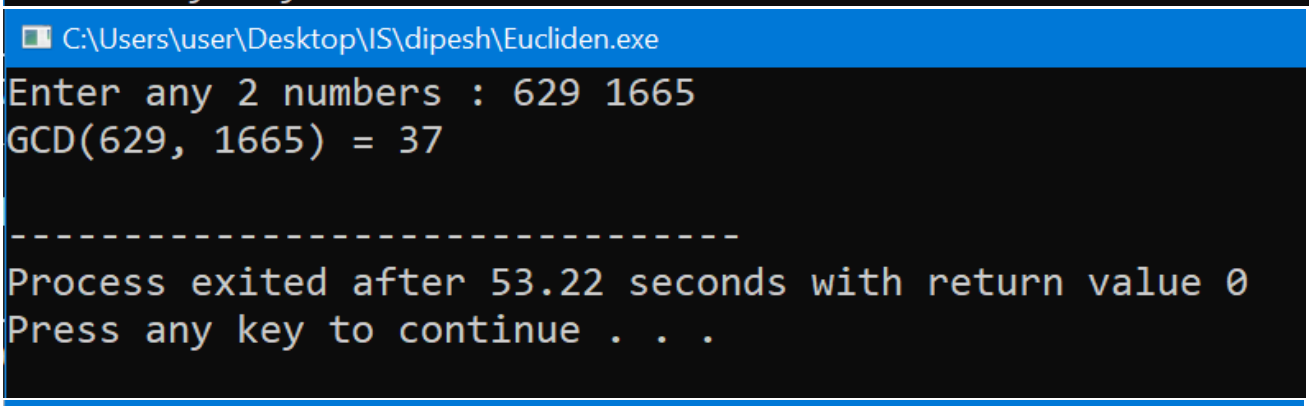
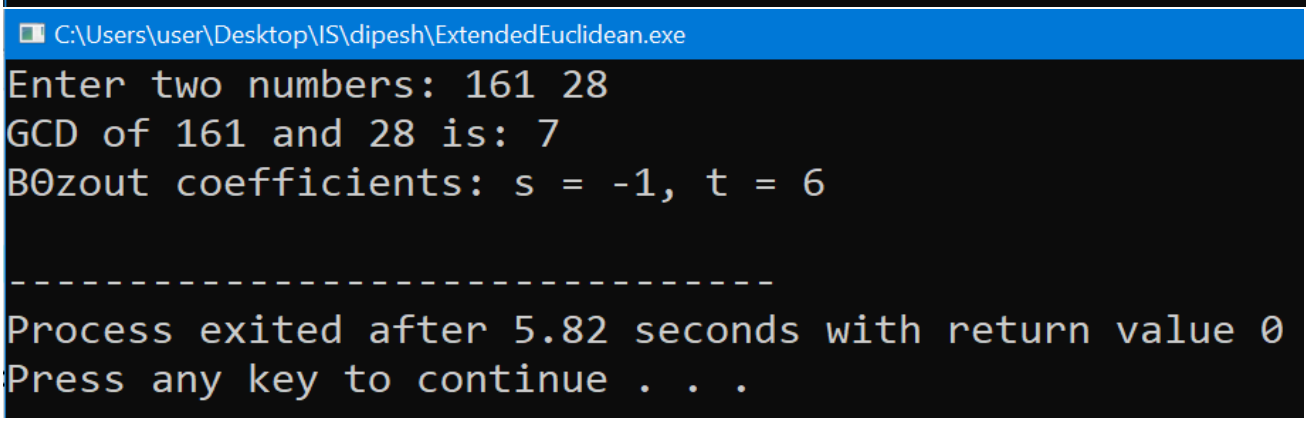

C:\Users\user\Desktop\IS\dipesh\AES.exe
Original state:
00 01 02 03
04 05 06 07
08 09 0A 0B
0C 0D 0E 0F
State after Shift Rows operation:
00 01 02 03
05 06 07 04
0A 0B 08 09
0F 0C 0D 0E

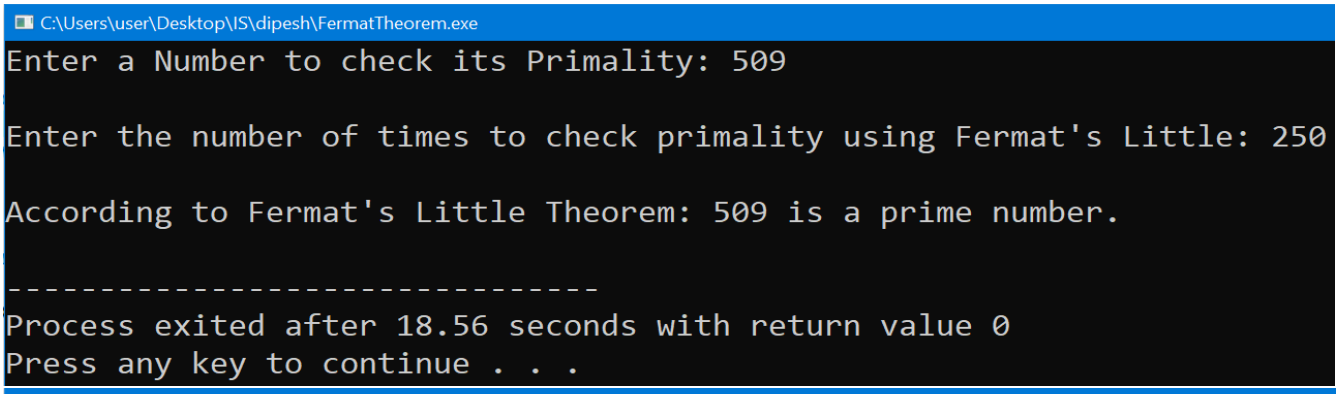
Process exited after 0.03396 seconds with return value 0
Press any key to continue . . .


C:\Users\user\Desktop\IS\dipesh\Eucliden.exe
Enter any 2 numbers : 629 1665
GCD(629, 1665) = 37

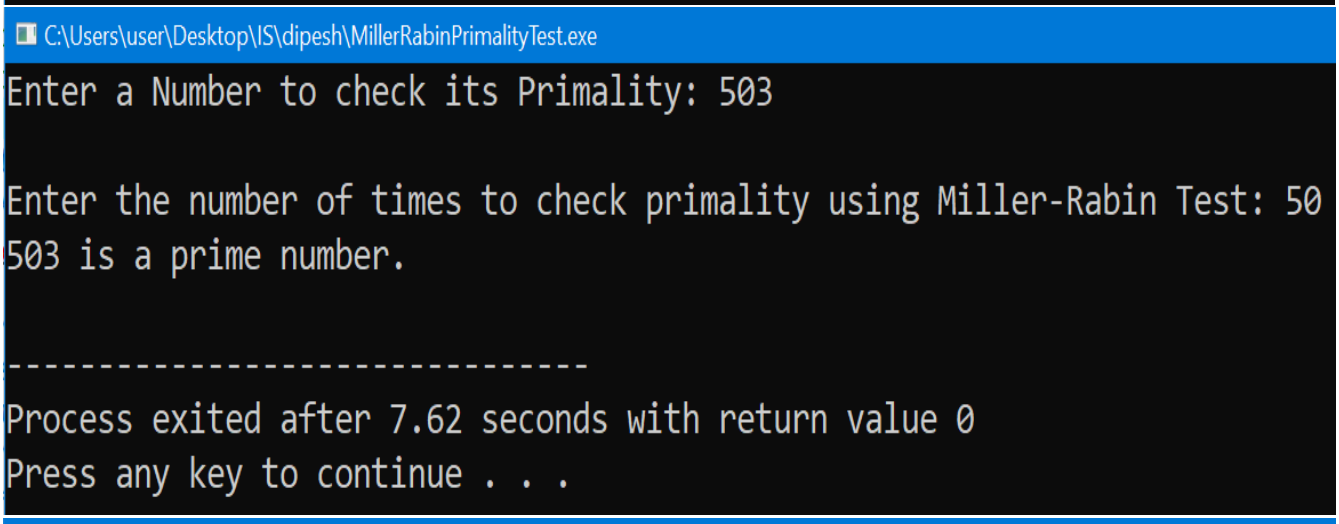
Process exited after 53.22 seconds with return value 0
Press any key to continue . . .


C:\Users\user\Desktop\IS\dipesh\ExtendedEuclidean.exe
Enter two numbers: 161 28
GCD of 161 and 28 is: 7
B0zout coefficients: s = -1, t = 6

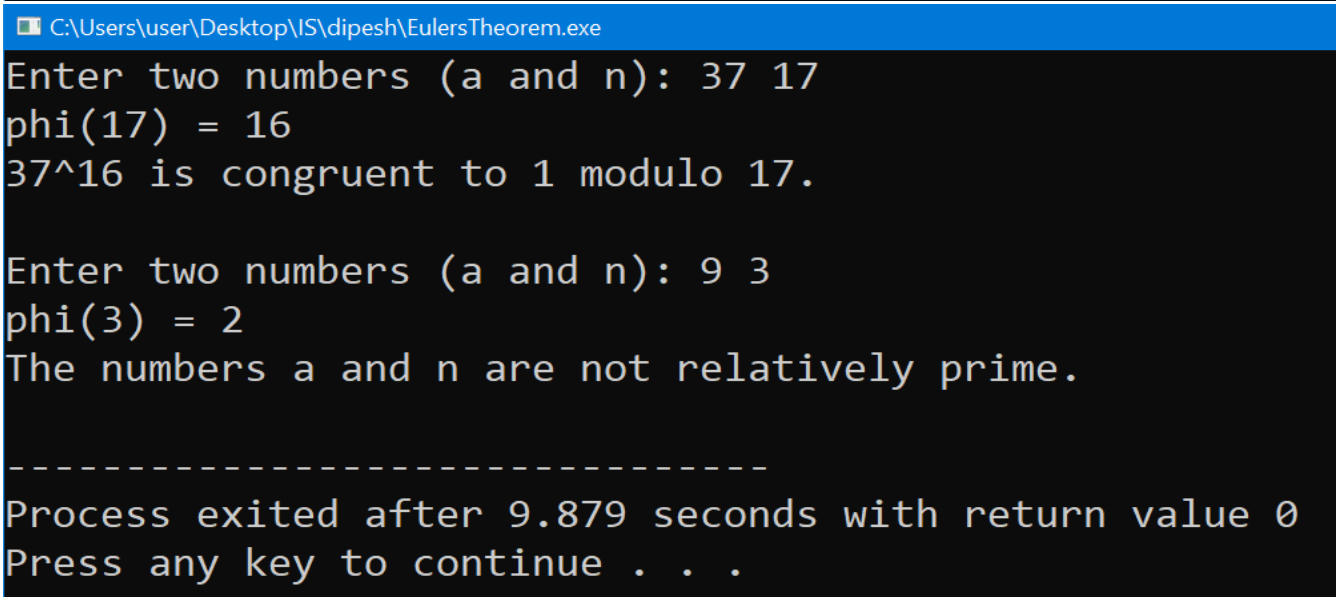
Process exited after 5.82 seconds with return value 0
Press any key to continue . . .


C:\Users\user\Desktop\IS\dipesh\FermatTheorem.exe
Enter a Number to check its Primality: 509
Enter the number of times to check primality using Fermat's Little: 250
According to Fermat's Little Theorem: 509 is a prime number.

Process exited after 18.56 seconds with return value 0
Press any key to continue . . .


C:\Users\user\Desktop\IS\dipesh\MillerRabinPrimalityTest.exe
Enter a Number to check its Primality: 503
Enter the number of times to check primality using Miller-Rabin Test: 50
503 is a prime number.

Process exited after 7.62 seconds with return value 0
Press any key to continue . . .


C:\Users\user\Desktop\IS\dipesh\EulersTheorem.exe
Enter two numbers (a and n): 37 17
phi(17) = 16
37^16 is congruent to 1 modulo 17.
Enter two numbers (a and n): 9 3
phi(3) = 2
The numbers a and n are not relatively prime.

Process exited after 9.879 seconds with return value 0
Press any key to continue . . .

```
C:\Users\user\Desktop\IS\dipesh\EulersTotient.exe
Enter any Number: 9

Totient Value of 9, phi(9) = 6
--------------------------------
Process exited after 7.731 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\user\Desktop\IS\dipesh\DiffieHellmanKeyExchange.exe
A Common Prime Number P : 23
A Primitive Root of P, G = 21

The private key a for Alice : 4
The public key x for Alice : 16
The private key b for Bob : 3

The public key y for Bob : 15
Secret key for Alice is : 2
Secret Key for Bob is : 2

--------------------------------
Process exited after 0.03489 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\user\Desktop\IS\dipesh\RSA.exe
Enter PlainTextMessage: 99

First prime number (p) = 13
Second prime number (q) = 17

Value of n = 221

Value of totient function, phi = 192

Value of e = 5

Value of d = 0

Plain Text Message (M) = 99

Encrypted message (E) = 216
Decrypted message or Plaintext Message (M) = 99

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Process exited after 3.141 seconds with return value 0
Press any key to continue . . .
```