

THINGS TO KNOW:

1. Lab report must contain following sections: (order must be maintained)
 - a) Title /Question
 - b) Theory: The brief overview of the concept /techniques/syntax/technology used in the program
 - c) Code: The complete code
 - d) Output: Screenshot of the output
2. Output screen should be captured (use snipping tool), printed and attached in the report. Other contents must be handwritten or printed.
3. Every Source code must include the printing statements to print following information after your main output:

Lab No.:

Name:

Roll No./Section :

4. Contents should be written on single side of A4 sized paper.
5. The works must be submitted within specified deadline.
6. Cover page and Content page should be attached in the report appropriately.

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Content Page Format (can be printed)

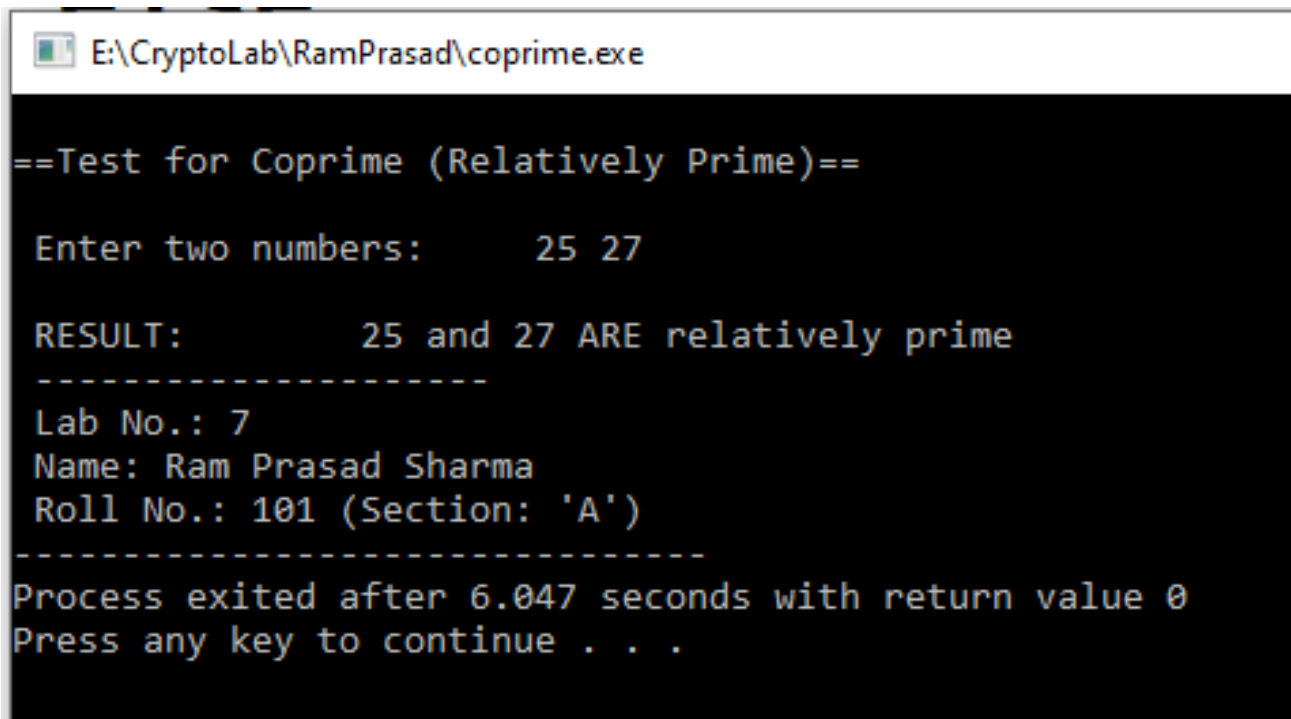
List of lab works

Lab No.	Title /Question	Submission Date	Signature	Remarks
1(a)	To print bio data	2070/08/22		
1(b)	To take two numbers and display their sum	2070/08/22		

Instruction:

Create a folder Named "CryptoLab". Inside this folder make another folder with your name (for example RamPrasad) and write the C/C++ programs inside this folder for each questions listed below. [Your screenshots of output must contain the title bar with file paths. See the sample output given below.]

Sample Output:



```
E:\CryptoLab\RamPrasad\coprime.exe

==Test for Coprime (Relatively Prime)==

Enter two numbers:      25 27

RESULT:      25 and 27 ARE relatively prime
-----
Lab No.: 7
Name: Ram Prasad Sharma
Roll No.: 101 (Section: 'A')
-----
Process exited after 6.047 seconds with return value 0
Press any key to continue . . .
```

Lab Works (Cryptography / BSc.CSIT 5th -sem)

(Lab Part -1)

Lab 1: Write a program to implement Shift Cipher. (Encryption/Decryption/ Input (key/plaint text for encryption/ cipher text for decryption) should be taken from user).

Lab 2: Write a program to implement Playfair Cipher. (Encryption/Decryption/ Input should be taken from user, Display the key matrix as well).

Lab 3: Write a program to implement Rail Fence Cipher. (Encryption/Decryption/ Input should be taken from user).

Lab 4: Write a program to implement Vigenere Cipher. (Encryption/Decryption/ Input should be taken from user).

Lab 5: WAP to implement Euclidean Algorithm to find GCD of given numbers.

Lab 6: Write a program that computes additive inverse in given modulo n.

Lab 7: Write a program which takes two numbers and display whether they are relatively prime or not.

Lab 8: Write a program to implement Extended Euclidean Algorithm. (Display the results of iterations in tabular format)

Lab 9: WAP to compute multiplicative inverse in given modulo n using Extended Euclidean Algorithm.

Lab 10: Write a program to implement Hill Cipher (Key matrix of size 2×2 / Encryption/ Decryption/ Input should be taken from user).