## **Tutorial and Lab**

1)	Which of the following is true?		
	1.	11   4	
	2.	87   87	
	3.	20   20	
	4.	0   58	
	5.	11 33 ∧ 11 110 → 11 143	
	6.	19 38 → 19 380	
	7.	3 12 ∧ 12 144 <del>&gt;</del> 3   144	
2)	Express each of the following number as a product of primes: 23, 50, 18,		
3)	Find the following gcd's:		
	1.	gcd(11,88)	
	2.	gcd(33,77)	
	3.	gcd(16,36)	
	4.	gcd(22,35)	
4)	Find the lcm's:		
	1.	lcm(5,25)	
	2.	lcm(6,4)	
	3.	lcm(9,11)	
5)	Prime numbers are very important in encryption schemes. Essential to be able to verify if a number is prime or not. Please write a program in C/C++/ Java (any programing language) to test if a number entered from keyboard is a Prime no.		
6)	Calculate the following:		
	99^1021 mod 7 (97*132) mod 13		

7)	Write a program in C/C++/ Java (any programing language) to ask user input two integer a, b then calculate GCD(a,b) and display the result on the screen. Then update your program Calculate M, N, which GCD(a,b)=Ma+Nb for any a,b