**Overview of Chapter 6 Exercise#1**

You may choose to look up how to determine a prime number or use this method.  A prime number is a number in which only 1 and the number itself divides into.  For example, 7 is prime, but 9 is not because 3 divides into 9 evenly.

a) A simple way to determine if a number is prime is to look at the numbers from 2 to one less than the number.  If any divide into the number, then it is not prime.

For the number 8   determine if 2 – 7 divide into the number if they do then it is not prime

//Enter the number

for(int c =2; c<number;c++){

if(number%c==0) // not prime, because the number divides evenly

}

If none of the numbers divides, then it is a prime number.  You will have to mark it in some way to determine this.  Using true or false or setting a variable to 1 or 0 could be used to mark whether it is prime or not.

b) In this program you have to determine all the numbers from the first entered to the second entered that are prime numbers.  This requires a loop to change the number around what was done for part a)

For(int x=number1;x<=number2;x++){

int number = x;

// part a) code to determine if the number is prime

}