MODULE 3 ASSESSMENT

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Course & Year: BSCS - 1

- Write a code that would determine the count and sum of the prime numbers within a particular range positive. In which it would require the use of the following functions:
 - bool isPrime (int x) // this function would determine if integer x is prime or not. Return 1 if x is prime 0 if otherwise
 - o int countPrimeInRange (int start, int end) // count the primes in range by using the isPrime (int x) function
 - o int sumPrimeInRange (int start, int end) // find the sum of primes in range by using the isPrime (int x) function

```
# include < iostroam>
bool infrime (int x)
int countPrimeInRange (int rtart, int end); int rum PrimeIn Rango (int rtart, int end);
int
    main ()
  int start;
  int end;
  cout L'start Range: ";
  cin >> ctart;
  cout Kend ( K'End Parge:";
 cin >>end;
 cout << end << "Count of Primar: " countfrimeln Range (utart, end) << end );
bool is Prime (int x)
 int num = 1;
 bool check = palre;
 for (num; num <= x/2; num++)
    if (x % num == 0)
       checks fale;
       return = 0;
      check = true;
    return 1;
```

```
countfrime In Range (int start, int end)
 int numoffrime = 0;
  for ( utart; start <= end; stort ++)
    if (ivPrime (start) == 1)
       numo=Prime += 1;
return numarthine;
int comprime In Range (int ctart, int end)
 int sumoffrime - 0;
 for (start; start (= end; start ++)
   {
if (is Prime (start) == 1)
      sumoffime t= start;
return sumoffrime;
```