I8 PrimeFunc MacIntyre

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For this assignment, we were instructed to create and define the function "primecheck". Through the primecheck function we were to check and see if a certain number was either prime of composite.

For my primecheck function I fist started off with stating that 2 is a prime number so that it would not interfere while checking if any number larger than 2 is prime. To determine if the other numbers were prime, I first checked if they were divisible by 2. If the number was divisible by two then I returned False to state that it was not prime. I also had used a while loop in determining prime or not. Instead of using a for loop and going through the range, I used a count based while loop to cycle through a range to see if a number was divisible by any other numbers between 2 and the number being checked. If the number being checked was divisible by any, a False boolean was returned. If the number was not divisible by any of those numbers, then a True boolean was returned as that number is a prime number.

Now we were also instructed to print out the Nth prime number. To achieve this, first I had used a for loop to append each prime number up to N to a list. With the use of my print statement, as long as the user enters which nth number they would like to print, through the input variable n, the statement will print out which prime number that is as it will then be pulled from my generated list of prime numbers.