

For each program that you turn in be sure to include:

Your name and the date on which the assignment was completed.

Well-placed comments indicating what your program does (or should do). While it may seem silly for trivial code, it is proper programming etiquette and a good habit to get into.

If you use any source other than the course textbook – that includes Google, YouTube videos, Tutors, Mentors, etc. - be sure to cite the source in your code. Failure to do so is a violation of the Academic Integrity Policy and can result in a failing grade and/or dismissal from the college.

Points will be deducted for failure to adhere to these guidelines.

Create a program called “nineteenth.py”. Create a program that writes 100 random numbers out to a file named numbers.txt. The program should then read the numbers into a list and display the following information:

The lowest number in the list

The highest number in the list

The total of the numbers in the list

The average of the numbers in the list

Create a program called “twentieth.py”. Complete Ch 7, Programming Exercise 12: Prime Number Generation, on page 404.

Create a program called “twentyfirst.py”. As mentioned in the previous program, a number is either a prime number or a composite. "Prime Factorization" is finding which prime numbers multiply together to make the composite value. Create a program that allows the user to enter a value and displays either the prime factorization of the value, or a message indicating the number is prime.