

CIS 111
Summer 2019
Programming Assignment 2
Assigned Date: July 8
Due Date: July 14 midnight

1. 10 pts
Take a nonnegative integer n from user and show the sum of the even integers from 1 to n , inclusive as output. Use a for loop in your code that counts from 1 to n .
2. 10 pts
Take a nonnegative integer n from user and show the sum of the odd integers from 1 to n , inclusive as an output. Use a for loop in your code that counts from 1 to n .
3. 20 pts
Take a nonnegative and nonzero integer from user, and show the sum of the proper divisors of n as output. (A proper divisor is a positive divisor of a number, excluding the number itself. For example, 1, 2, and 3 are proper divisors of 6, but 6 itself is not.) Use a for loop.
4. 10 pts
Take a number for the grade point average (gpa) from the user and show a Boolean value true if the gpa is 3.75 or greater. Otherwise it will show false.
5. 10pts
Take three numbers (as inputs from user) representing the sides of a triangle, and show a string representing the triangle type, "equilateral", "isosceles", or "scalene" as output.
6. 20pts
Take the year as an integer input from user and show the Boolean value true if the year is leap year, otherwise show false.
7. 20 pts
Take a month number (1 .. 12) and show the number of days in the month, leap years excluded.