**Algorithm Workbench**

1. Write a while loop that lets the user enter a number. The number should be multiplied by 10, and the result assigned to a variable named product. The loop should iterate as long as the product is less than 100.

2. Write a while loop that asks the user to enter two numbers. The numbers should be added, and the sum displayed. The loop should ask the user if he or she wishes to perform the operation again. If so, the loop should repeat, otherwise it should terminate.

3. Write a for loop that uses the range function to display all odd numbers between 1 and 100.

4. Write code that prompts the user to enter a positive nonzero number and validates the input.

5. Write code that prompts the user to enter a number in the range of 1 through 100 and validates the input.

6. Write a program to calculate the average grade of four students. Each student has 3 grades to be averaged. The program will ask the user to input the grades of each student. After the grades are entered for each student, the average grade for each student will be displayed.