Write the following code segments. You can assume that `intSum` has been declared as an `Integer` and is initialized to zero in each exercise but you must declare and initialize any necessary variables.

1. Write a code segment that uses a `While` loop to add up the integers from 1 to 7 inclusive storing the sum in a variable named `intSum`.

2. Write a code segment that uses a `While` loop to add up the integers from 13 to 19 inclusive storing the sum in a variable named `intSum`.

3. Write a code segment that uses a `While` loop to add up all the integers that are multiples of 5 between 15 and 45 inclusive storing the sum in a variable named `intSum`.

4. Write a code segment that uses a `While` loop to add up all the prime integers between 2 and 100 storing the sum in a variable named `intSum`.