Good day once again Sir Gayo here is the file for the counter and counterDemo

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       public class Counter {
         private int count;
         public Counter() {
              count = 0;
       // constructor getter method
         public int getCount() {
            return count;
   9
       // constructor setter method
         public void increment() {
              count++;
       // constructor decrement method
         public void increment(int times) {
              count += times;
       // constructor getter method
         public void reset() {
              count = 0;
```

Introduction

This document provides an overview of the Counter and CounterDemo classes. The Counter class is a simple counter that can be incremented, reset, and queried. The CounterDemo class demonstrates, so sir Gayo the usage of the Counter class by simulating a sequence of operations and outputting results to the console.

Class Descriptions

Counter.java

- The Counter class represents a simple counter with a count attribute.
- Methods in this class allow for incrementing the counter, resetting it, and retrieving its current value.

CounterDemo.java

```
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C: > Users > CCV YOUTH > OneDrive > Desktop > Classes and Object > 🔳 CounterDemo.java > ધ CounterDemo > 👽 main(String[])
       public class CounterDemo {
         public static void main(String[] args) {
             Counter c = new Counter();
             System.out.println("Counter c count = " + c.getCount());
             // System print the counter
             c.increment(times:2);
             System.out.println(x:"Counter c incremented twice");
             System.out.println("Counter c count = " + c.getCount());
             // System print the counter
             int temp = c.getCount();
             System.out.println("Created variable temp from counter c : " + temp);
             // System print the counter
             c.reset();
             System.out.println(x:"Counter c has been reset");
             System.out.println("Counter c count = " + c.getCount());
             // System print the counter
             Counter d = new Counter();
             d.increment(times:5);
             System.out.println("Counter d count = " + d.getCount());
             // System print the counter
             d.increment();
             System.out.println(x:"Counter d incremented");
             System.out.println("Counter d count = " + d.getCount());
```

- The CounterDemo class demonstrates the functionality of the Counter class.
- It creates instances of the Counter class, performs operations on them, and outputs the results to the console.

CounterDemo Class Methods

main: This is the main method that demonstrates the use of the Counter class by creating instances and calling various methods to perform operations. It also prints the results of each operation to the console.

4. Explanation of the Console Output in CounterDemo

The CounterDemo class is structured to perform and display the following sequence of operations:

- Initialize Counter c: A new Counter object c is created and initialized with count = θ.
- 2. **Increment c twice**: c is incremented by 2, bringing the count to 4.
- 3. **Assign temp variable**: The current count of c (4) is stored in temp.
- 4. **Reset c**: The counter c is reset to 0.
- 5. Create and Increment Counter d: A new Counter object d is created and incremented by 5, resulting in count = 5. It is then incremented by 1, bringing it to 6.
- 6. **Create and Assign Counter e**: A new Counter object e is created, incremented by 6, then assigned to temp. e is incremented by 2, bringing its count to 8.

The output

```
Counter c count = 0
Counter c incremented twice
Counter c count = 2
Created variable temp from counter c : 2
Counter c has been reset
Counter c count = 0
Counter d count = 5
Counter d incremented
Counter d count = 6
Counter e count = 6
Assigned variable temp from counter e : 6
Counter e incremented
Counter e count = 8
PS C:\Users\CCV YOUTH>
```

- 1. Counter c count = 0 Initializes Counter c with a count of 0.
- 2. Counter c incremented twice Increments c twice (count goes up by 2).
- 3. Counter c count = 4 c's count is now 4.
- 4. Created variable temp from counter c: 4 Stores c's count (4) in a temporary variable, temp.
- 5. Counter c has been reset Resets c's count back to 0.
- 6. Counter c count = 0 Shows that c's count is now 0.
- 7. Counter d count = 5 Initializes Counter d and sets its count to 5.
- 8. **Counter d incremented** Increments d by 1.
- 9. Counter d count = 6 d's count is now 6.
- 10. Counter e count = 6 Initializes Counter e and sets its count to 6.
- 11. **Assigned variable temp from counter e : 6** Assigns e's count (6) to temp.
- 12. Counter e incremented Increments e by 2.
- 13. Counter e count = 8 e's count is now 8.

This sequence demonstrates incrementing, resetting, and storing counter values.