

Assignment 1 Sample Test Case

Question 1

// testAirConditioner is a public static method that tests all the code in the
// AirConditioner class.

```
public static void testAirConditioner() {  
    AirConditioner ac = new AirConditioner();  
    // test the constructor  
    System.out.println(ac.getPower() == false);  
    System.out.println(ac.getMode() == 0);  
    System.out.println(ac.getTemperature() == 16);  
    // test the power functions  
    ac.turnOn();  
    System.out.println(ac.getPower() == true);  
    ac.turnOff();  
    System.out.println(ac.getPower() == false);  
    // test the mode functions  
    ac.setMode(1);  
    System.out.println(ac.getMode() == 0);  
    ac.turnOn();  
    ac.setMode(5);  
    System.out.println(ac.getMode() == 0);  
    ac.setMode(2);  
    System.out.println(ac.getMode() == 2);  
    // test the temperature functions  
    ac.turnOff();  
    ac.setTemperature(20);  
    System.out.println(ac.getTemperature() == 16);  
    ac.turnOn();  
    ac.setTemperature(20);  
    System.out.println(ac.getTemperature() == 16);  
    ac.setMode(1);  
    ac.setTemperature(31);  
    System.out.println(ac.getTemperature() == 16);  
    ac.setTemperature(20);  
    System.out.println(ac.getTemperature() == 20);  
}
```