- 1) equals (d1) must be true.
- 2) equals () must be symmetric. if d1. equals (d2) is true, then d2. equals (d1) must be true.
- 3 equals () must be transitive.

 if d1. equals (d2) is true and

 d2. equals (d3) is true, then

 d1. equals (d3) must be true.
- 4) equals () must be consistent

 Result of all equals (d2) should

 remain same until any
 of the object state modified.
- 3 mull comparison d1. equals (mull) must be false.
- 6 Comparison with incompatible type.
 d1-equals ("1-1-2024") must false 3

```
class Date ?
   private int d, m, y;
   // constanctors, getters setters
   public boolean equals (Object other) ?
       if (other == mull)
           return false; // oule 5
       if (this == other)
           return true; // rule 1
       if ( (other instanceof Date))
           return false; // rule 6
       Date that = (Date) other;
       if (this d == that d && this m == that m &&
              this y = = that y) // state comparison
            setuin true;
        return false;
```