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# Java Assignment 3

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PROG 1400-700

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## 1. Assignment3a

```
File Edit View Navigate Code Analyze Refactor Build Run Tools Git Window Help assignment-3-Jeong1223 - Assignment3a.java
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C Assignment3a.java ×

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   assignment-3-Jeong1223 > src > © Assignment3a
          1 ▶ Public class Assignment3a {
2
3 >
4 5
                                          public static void main(String[] args) {
                                                      //create a SSD object
                                                      SSD samsungT7 = new SSD( make: "Samsung", model: "T7", capacity: 2, teraBytesWritten: 300);
                                                      System.out.println("-- HardDrive Information --" + "\nMake: " + samsungT7.getMake()
 Pull Requests
                                                                              + "\nModel: " + samsungT7.getModel() + "\nCapacity: " + samsungT7.getCapacity() + "TB" +
                                                                                "\nTerabytes Written(TBW): " + samsungT7.getTeraBytesWritten());
                            }
        Run: Assignment3a
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.3.1\lib\idea_rt.jar=49226:C:\Program Files\JetBrains\Idea_rt.jar=49226:C:\Program Files\JetBrains\Idea_rt.jar=49226:C:\Progra
                                 -- HardDrive Information --
          × 1
                                 Make: Samsung
         ■ =
                                Model: T7
        Capacity: 2TB
                                Terabytes Written(TBW): 300
         药量
        ∌ 🖹
                                Process finished with exit code 0
          *
```

### 2. Assignment3b

```
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in.
   2
         public class Assignment3b {
             public static void main(String[] args) {
   3
Commit
   4
   5
                 //create two objects, an apple and an orange
                 Fruit apple = new Fruit( name: "Apple", colour: "Red");
                 Fruit orange = new Fruit( name: "Orange", colour: "orange");
   8
                 //create a new 'other' fruit that uses the copy constructor to copy previous fruit object.
  9
₽
                 Fruit other = new Fruit(orange);
                 //to test comparing fruit object using the 'equals' function
                 //test displaying the value of a fruit object using the 'toString' function
  14
                 if (apple.equals(other)) {
                     System.out.println(apple.toString() + " is equal to " + other.toString());
  16
                 } else {
                     System.out.println(apple.toString() + " is NOT equal to " + other.toString());
  18
  19
         }
  Run:
        Assignment3b ×
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.3.1\lib\idea_rt.ja
   \blacktriangleright
          Apple(Red) is NOT equal to Orange(orange)
   مو
      \downarrow
      ₽
   Process finished with exit code 0
     =+
  0
```

```
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h
  2
         public class Assignment3b {
             public static void main(String[] args) {
  3
  4
                 //create two objects, an apple and an orange
  5
0-
                 Fruit apple = new Fruit( name: "Apple", colour: "Red");
                 Fruit orange = new Fruit( name: "Orange", colour: "orange");
Pull Requests
  8
                 //create a new 'other' fruit that uses the copy constructor to copy previous fruit object.
  9
                Fruit other = new Fruit(apple);
                //to test comparing fruit object using the 'equals' function
                 //test displaying the value of a fruit object using the 'toString' function
                 if (apple.equals(other)) {
  14
                     System.out.println(apple.toString() + " is equal to " + other.toString());
                } else {
  16
                     System.out.println(apple.toString() + " is NOT equal to " + other.toString());
                 }
  18
  19
         }
  Run:
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.3.1\lib\idea_r
  ▶ ↑
          Apple(Red) is equal to Apple(Red)
  مو
      \downarrow
     ===
          Process finished with exit code 0
```

#### 3. Assignment3c

```
Assignment3c.java ×
        public class Assignment3c {
  2
             public static void main(String[] args) {
  4
                 //create objects
                 Zombie walkingDead = new Zombie( name: "Rotten Rob");
  5
                 Hero wonderHuman = new Hero( name: "Blasting Bob");
  6
  7
                 // set the default value of health
  8
  9
                 walkingDead.setHealth(25);
                 wonderHuman.setHealth(25);
                 // if they are alive...
  13
                 while (walkingDead.isAlive() && wonderHuman.isAlive()) {
  14
                     // wonderHuman wins
                     if (wonderHuman.roll() > walkingDead.roll()) {
                         wonderHuman.slashes(walkingDead);
                     // walkingDead wins
  17
                     } else {
  18
  19
                         walkingDead.bites(wonderHuman);
                     }
                 // One of them dies...
                 } if (wonderHuman.getHealth() > walkingDead.getHealth()) {
                     System.out.println(wonderHuman.getName()+": Take that vile beast!");
  24
                 } else {
                     System.out.println(walkingDead.getName()+": Mmmm! Brains..");
                 }
  28
  Run:
         Assignment3c ×
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.
     \uparrow
          Blasting Bob: WACK!
     \downarrow
          Blasting Bob: WACK!
     =
  Rotten Rob: MUNCH!
          Rotten Rob: MUNCH!
  ō
          Blasting Bob: WACK!
  药
          Rotten Rob: MUNCH!
          Rotten Rob: MUNCH!
          Blasting Bob: WACK!
  ____
          Rotten Rob: MUNCH!
  *
          Rotten Rob: MUNCH!
          Rotten Rob: MUNCH!
          Blasting Bob: WACK!
          Rotten Rob: MUNCH!
          Rotten Rob: Mmmm! Brains..
```

```
assignment-3-Jeong1223 ) src ) © Assignment3c
  Assignment3c.java ×
         public class Assignment3c {
             public static void main(String[] args) {
   2 1
   3
                  //create objects
   4
                  Zombie walkingDead = new Zombie( name: "Rotten Rob");
   5
0-
   6
                  Hero wonderHuman = new Hero( name: "Blasting Bob");
  7
                  // set the default value of health
  8
  0
                  walkingDead.setHealth(25);
                  wonderHuman.setHealth(25);
                 // if they are alive...
                  while (walkingDead.isAlive() && wonderHuman.isAlive()) {
  13
                      // wonderHuman wins
  14
  15
                      if (wonderHuman.roll() > walkingDead.roll()) {
  16
                          wonderHuman.slashes(walkingDead);
                     // walkingDead wins
  18
                      } else {
  19
                          walkingDead.bites(wonderHuman);
                 // One of them dies...
                  } if (wonderHuman.getHealth() > walkingDead.getHealth()) {
                      System.out.println(wonderHuman.getName()+": Take that vile beast!");
  24
                  } else {
                      System.out.println(walkingDead.getName()+": Mmmm! Brains..");
  25
                  }
  27
  28
          Assignment3c ×
  Run:
          c:\jdk-15.0.1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 20
  -
      1
          Blasting Bob: WACK!
  p
      1
          Rotten Rob: MUNCH!
      -
  Blasting Bob: WACK!
      =+
          Blasting Bob: WACK!
  药
          Rotten Rob: MUNCH!
  =
          Blasting Bob: WACK!
          Blasting Bob: WACK!
  *
          Rotten Rob: MUNCH!
Structure
          Blasting Bob: WACK!
          Blasting Bob: WACK!
...
          Blasting Bob: WACK!
          Blasting Bob: Take that vile beast!
          Process finished with exit code 0
```