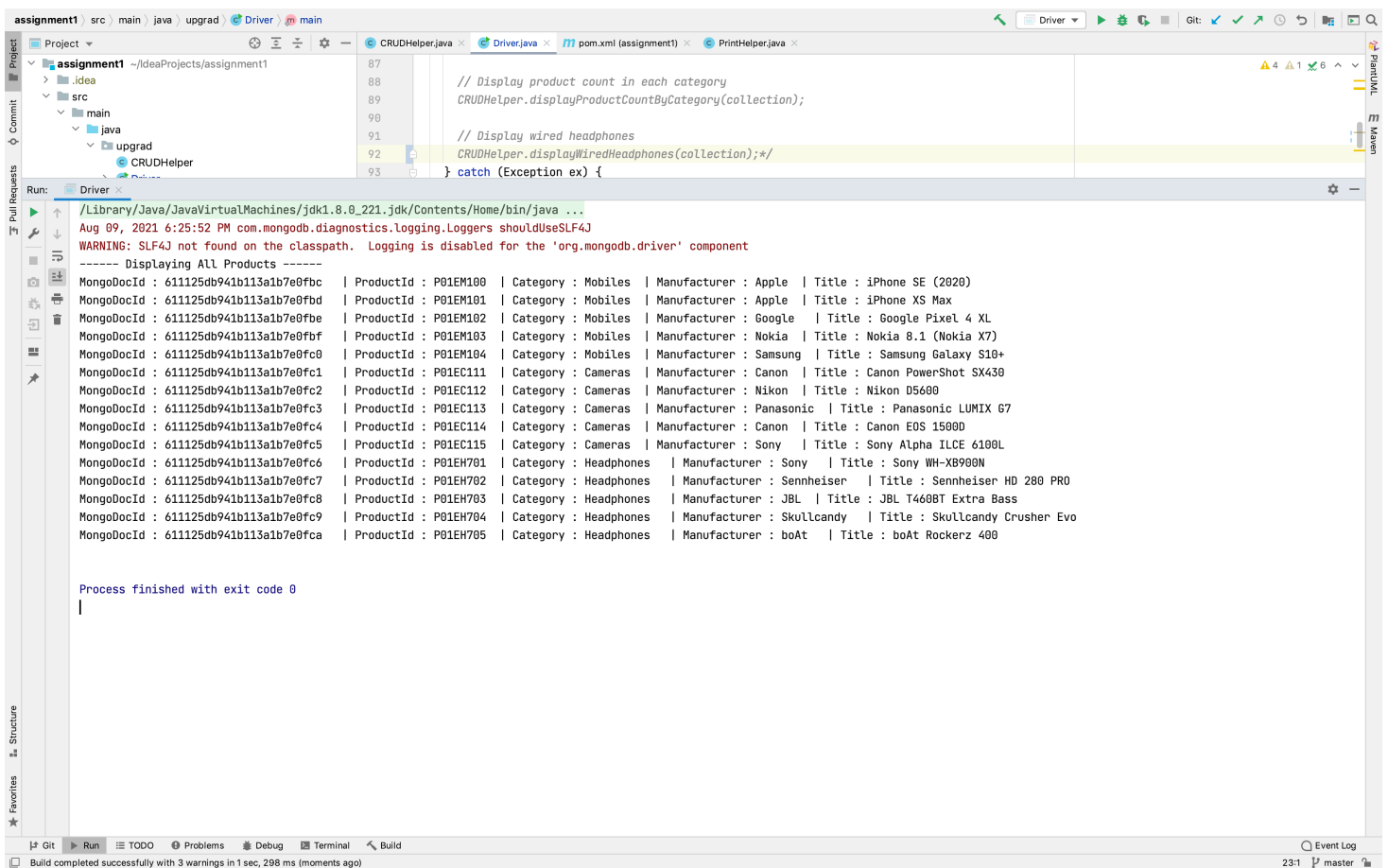


# upgrad-dbassignment

## Console Outputs

### Console output(all products)



```
assignment1 | src | main | java | upgrad | Driver | main
Project | ~/IdeaProjects/assignment1
> .idea
> src
  > main
    > java
      > upgrad
        > CRUDHelper

Run: Driver
/Library/Java/JavaVirtualMachines/jdk1.8.0_221.jdk/Contents/Home/bin/java ...
Aug 09, 2021 6:25:52 PM com.mongodb.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component

----- Displaying ALL Products -----
MongoDocId : 611125db941b113a1b7e0fbc | ProductId : P01EM100 | Category : Mobiles | Manufacturer : Apple | Title : iPhone SE (2020)
MongoDocId : 611125db941b113a1b7e0fbd | ProductId : P01EM101 | Category : Mobiles | Manufacturer : Apple | Title : iPhone XS Max
MongoDocId : 611125db941b113a1b7e0fbe | ProductId : P01EM102 | Category : Mobiles | Manufacturer : Google | Title : Google Pixel 4 XL
MongoDocId : 611125db941b113a1b7e0fbf | ProductId : P01EM103 | Category : Mobiles | Manufacturer : Nokia | Title : Nokia 8.1 (Nokia X7)
MongoDocId : 611125db941b113a1b7e0fc0 | ProductId : P01EM104 | Category : Mobiles | Manufacturer : Samsung | Title : Samsung Galaxy S10+
MongoDocId : 611125db941b113a1b7e0fc1 | ProductId : P01EC111 | Category : Cameras | Manufacturer : Canon | Title : Canon PowerShot SX430
MongoDocId : 611125db941b113a1b7e0fc2 | ProductId : P01EC112 | Category : Cameras | Manufacturer : Nikon | Title : Nikon D5600
MongoDocId : 611125db941b113a1b7e0fc3 | ProductId : P01EC113 | Category : Cameras | Manufacturer : Panasonic | Title : Panasonic LUMIX G7
MongoDocId : 611125db941b113a1b7e0fc4 | ProductId : P01EC114 | Category : Cameras | Manufacturer : Canon | Title : Canon EOS 1500D
MongoDocId : 611125db941b113a1b7e0fc5 | ProductId : P01EC115 | Category : Cameras | Manufacturer : Sony | Title : Sony Alpha ILCE 6100L
MongoDocId : 611125db941b113a1b7e0fc6 | ProductId : P01EH701 | Category : Headphones | Manufacturer : Sony | Title : Sony WH-XB900N
MongoDocId : 611125db941b113a1b7e0fc7 | ProductId : P01EH702 | Category : Headphones | Manufacturer : Sennheiser | Title : Sennheiser HD 280 PRO
MongoDocId : 611125db941b113a1b7e0fc8 | ProductId : P01EH703 | Category : Headphones | Manufacturer : JBL | Title : JBL T460BT Extra Bass
MongoDocId : 611125db941b113a1b7e0fc9 | ProductId : P01EH704 | Category : Headphones | Manufacturer : Skullcandy | Title : Skullcandy Crusher Evo
MongoDocId : 611125db941b113a1b7e0fca | ProductId : P01EH705 | Category : Headphones | Manufacturer : boAt | Title : boAt Rockerz 400

Process finished with exit code 0
|
```

Build completed successfully with 3 warnings in 1 sec, 298 ms (moments ago)

## Top 5 mobiles

The screenshot shows the IntelliJ IDEA IDE with a project named 'assignment1'. The main editor displays the 'PrintHelper.java' file, which contains the following code:

```
import org.bson.Document;

public class PrintHelper {

    /**
     * Print all attributes of the row
     *
     * @param row
     */
    public static void printAllAttributes(Document row) {
        System.out.println(row.toJson().toString());
    }
}
```

The 'Run' tab at the bottom shows the output of the program, which is the JSON representation of the top 5 mobile phones from a MongoDB database:

```
Process finished with exit code 0

{"_id": {"$oid": "61112744a625d75f460c8d29"}, "ProductId": "P01EM100", "Title": "iPhone SE (2020)", "Manufacturer": "Apple", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "157.
{"_id": {"$oid": "61112744a625d75f460c8d2a"}, "ProductId": "P01EM101", "Title": "iPhone XS Max", "Manufacturer": "Apple", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "157.
{"_id": {"$oid": "61112744a625d75f460c8d2b"}, "ProductId": "P01EM102", "Title": "Google Pixel 4 XL", "Manufacturer": "Google", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "154.
{"_id": {"$oid": "61112744a625d75f460c8d2c"}, "ProductId": "P01EM103", "Title": "Nokia 8.1 (Nokia X7)", "Manufacturer": "Nokia", "NetworkTechnology": "GSM / CDMA / HSPA / LTE", "Dimensions": "154.
{"_id": {"$oid": "61112744a625d75f460c8d2d"}, "ProductId": "P01EM104", "Title": "Samsung Galaxy S10+", "Manufacturer": "Samsung", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "154.

Process finished with exit code 0
```

# ProductsBycategories

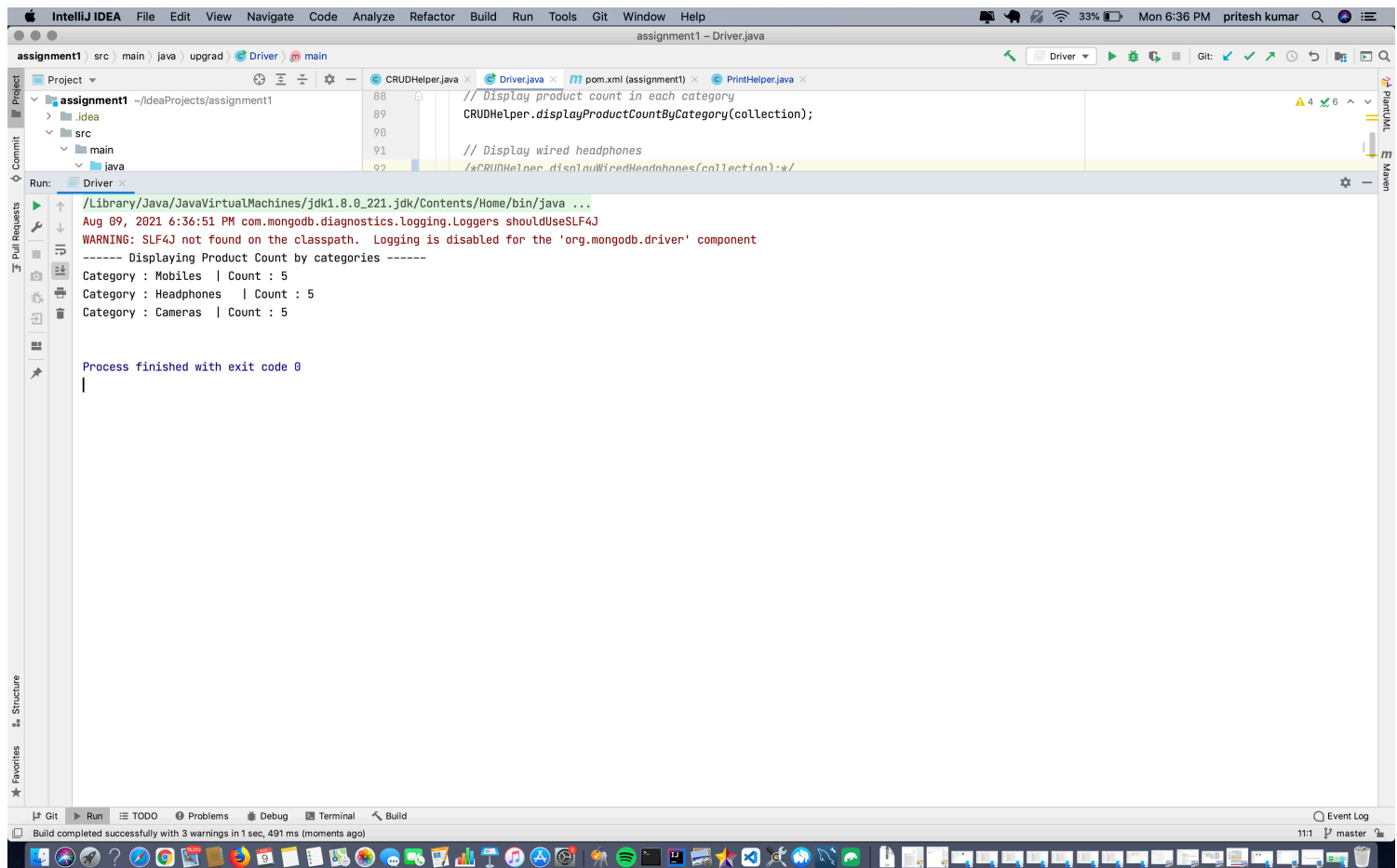
```
assignment1 - Driver.java

92 CRUDHelper.displayWiredHeadphones(collection);*/
93 } catch (Exception ex) {
94     System.out.println("Got Exception.");
95     ex.printStackTrace();
96 } finally {
97     // Close Connections
98     if (null != sqlConnection)
99         sqlConnection.close();

Run: Driver
/Library/Java/JavaVirtualMachines/jdk1.8.0_221-jdk/Contents/Home/bin/java ...
Aug 09, 2021 6:36:20 PM com.mongodb.diagnostics.logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
----- Displaying Products ordered by categories -----
{"ProductId": "P01EM100", "Title": "iPhone SE (2020)", "Manufacturer": "Apple", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "138.4 x 67.3 x 7.3 mm (5.45 x 2.65 x 0.29 in)", "Weight": "149 g (5.29 oz)", "HeadPhoneType": "Over Ear", "Battery": "1821 mAh", "Warranty": "1 Year", "ConnectorType": "Wired", "WithMicrophone": true}
{"ProductId": "P01EM101", "Title": "iPhone XS Max", "Manufacturer": "Apple", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "157.5 x 77.4 x 7.7 mm (6.20 x 3.05 x 0.30 in)", "Weight": "221 g (7.83 oz)", "HeadPhoneType": "Over Ear", "Battery": "2657 mAh", "Warranty": "1 Year", "ConnectorType": "Wireless", "WithMicrophone": true}
{"ProductId": "P01EM102", "Title": "Google Pixel 4 XL", "Manufacturer": "Google", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "160.4 x 75.1 x 8.2 mm (6.31 x 2.96 x 0.32 in)", "Weight": "193.5 g (6.86 oz)", "HeadPhoneType": "Over Ear", "Battery": "3180 mAh", "Warranty": "1 Year", "ConnectorType": "Wireless", "WithMicrophone": true}
{"ProductId": "P01EM103", "Title": "Nokia 8.1 (Nokia X7)", "Manufacturer": "Nokia", "NetworkTechnology": "GSM / CDMA / HSPA / LTE", "Dimensions": "154.8 x 75.8 x 8 mm (6.09 x 2.98 x 0.31 in)", "Weight": "170 g (6.03 oz)", "HeadPhoneType": "Over Ear", "Battery": "3050 mAh", "Warranty": "1 Year", "ConnectorType": "Wireless", "WithMicrophone": true}
{"ProductId": "P01EM104", "Title": "Samsung Galaxy S10+", "Manufacturer": "Samsung", "NetworkTechnology": "GSM / CDMA / HSPA / EVDO / LTE", "Dimensions": "157.6 x 74.1 x 7.8 mm (6.20 x 2.92 x 0.31 in)", "Weight": "170 g (6.03 oz)", "HeadPhoneType": "Over Ear", "Battery": "3500 mAh", "Warranty": "1 Year", "ConnectorType": "Wireless", "WithMicrophone": true}
{"ProductId": "P01EH701", "Title": "Sony WH-XB900N", "Manufacturer": "Sony", "HeadPhoneType": "Over Ear", "Battery": "30 Hours", "Warranty": "1 Year", "ConnectorType": "Wireless", "WithMicrophone": true}
{"ProductId": "P01EH702", "Title": "Sennheiser HD 280 PRO", "Manufacturer": "Sennheiser", "HeadPhoneType": "Over Ear", "Battery": null, "Warranty": null, "ConnectorType": "Wired", "WithMicrophone": false}
{"ProductId": "P01EH703", "Title": "JBL T460BT Extra Bass", "Manufacturer": "JBL", "HeadPhoneType": "On Ear", "Battery": "11 Hours", "Warranty": "1 Year", "ConnectorType": "Wireless", "WithMicrophone": false}
{"ProductId": "P01EH704", "Title": "Skullcandy Crusher Evo", "Manufacturer": "Skullcandy", "HeadPhoneType": "Over Ear", "Battery": "40 Hours", "Warranty": "1 Year", "ConnectorType": "Wireless", "WithMicrophone": false}
{"ProductId": "P01EH705", "Title": "boAt Rockerz 400", "Manufacturer": "boAt", "HeadPhoneType": "On Ear", "Battery": "8 Hours", "Warranty": "1 year", "ConnectorType": "Wireless", "WithMicrophone": false}
{"ProductId": "P01EC111", "Title": "Canon PowerShot SX430", "Manufacturer": "Canon", "EffectivePixels": "20MP", "Zoom": "45X Optical Zoom", "Dimension": "2.4 x 9.5 x 5.7 cm", "Weight": "830 g", "VideoResolution": "1080p"}
{"ProductId": "P01EC112", "Title": "Nikon D5600", "Manufacturer": "Nikon", "EffectivePixels": "24.2 MP", "Zoom": "16.67 x Optical Zoom", "Dimension": "7 x 12.4 x 9.7 cm", "Weight": "465 g", "VideoResolution": "1080p"}
{"ProductId": "P01EC113", "Title": "Panasonic LUMIX G7", "Manufacturer": "Panasonic", "EffectivePixels": "16.00 MP", "Zoom": "3X Optical Zoom", "Dimension": "8.7 x 13.9 x 9.8 cm", "Weight": "645 g", "VideoResolution": "4K"}
{"ProductId": "P01EC114", "Title": "Canon EOS 1500D", "Manufacturer": "Canon", "EffectivePixels": "24.1 MP", "Zoom": "3X", "Dimension": "7.76 x 12.9 x 10.13 cm", "Weight": "475 g", "VideoResolution": "1080p"}
{"ProductId": "P01EC115", "Title": "Sony Alpha ILCE 6100L", "Manufacturer": "Sony", "EffectivePixels": "24.2 MP", "Zoom": "", "Dimension": "12 x 5.9 x 6.6 cm", "Weight": "396 g", "VideoResolution": "4K"}

Process finished with exit code 0
```

# ProductCountByCategory



# WiredHeadphones

```
IntelliJ IDEA File Edit View Navigate Code Analyze Refactor Build Run Tools Git Window Help
assignment1 - Driver.java

Project: assignment1 ~/IdeaProjects/assignment1
  .idea
  src
    main
      java
        upgrad
          CRUDHelper.java
          Driver.java
          pom.xml (assignment1)
          PrintHelper.java

88 // Display product count in each category
89 //CRUDHelper.displayProductCountByCategory(collection);
90
91 // Display wired headphones
92 CRUDHelper.displayWiredHeadphones(collection);
93 } catch (Exception ex) {

Run: Driver
/Library/Java/JavaVirtualMachines/jdk1.8.0_221.jdk/Contents/Home/bin/java ...
Aug 09, 2021 6:37:12 PM com.mongodb.diagnostics.Logging.Loggers shouldUseSLF4J
WARNING: SLF4J not found on the classpath. Logging is disabled for the 'org.mongodb.driver' component
----- Displaying Wired headphones -----
{"_id": {"$oid": "61112883387a824c5423669a"}, "ProductId": "P01EH702", "Title": "Sennheiser HD 280 PRO", "Manufacturer": "Sennheiser", "HeadPhoneType": "Over Ear", "Battery": null, "Warranty": null}

Process finished with exit code 0
```