Source Code:

```
a. String Type:
import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
public class Collections {
  public static void main(String[] args) {
     List<String> list = new ArrayList<>();
     list.add("Apple");
     list.add("Banana");
     list.add("Cherry");
     System.out.println("List:");
     for (String item: list) {
       System.out.println(item);
     Set<String> set = new HashSet<>();
     set.add("Apple");
     set.add("Banana");
     set.add("Cherry");
     set.add("Banana"); // duplicates are not allowed in a set
     set.add("Mango");
     set.add("Apple");
     System.out.println("Set:");
     for (String item : set) {
       System.out.println(item);
     }
  }
}
   b. Integer, Float and Double Data Type:
import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
public class Collections1 {
  public static void main(String[] args) {
```

```
// ArrayList of Integers
    List<Integer> intList = new ArrayList<>();
    intList.add(1);
    intList.add(6);
    intList.add(8);
    System.out.println("Integer List:");
    for (Integer item : intList) {
       System.out.println(item);
     }
    // HashSet of Floats
    Set<Float> floatSet = new HashSet<>();
    floatSet.add(1.0f);
    floatSet.add(2.5f);
    floatSet.add(3.14f);
    floatSet.add(2.568f); // duplicates are not allowed in a set
    System.out.println("Float Set:");
    for (Float item : floatSet) {
       System.out.println(item);
     }
    // ArrayList of Doubles
    List<Double> doubleList = new ArrayList<>();
    doubleList.add(3.14159);
    doubleList.add(2.718286);
    doubleList.add(1.6180374);
    System.out.println("Double List:");
    for (Double item: doubleList) {
       System.out.println(item);
     }
  }
}
```

Output:

doubleList.add(3.14159); doubleList.add(2.718286); doubleList.add(1.6180374);

System.out.println("Double List:"); for (Double item : doubleList) {
 System.out.println(item);

```
□ □ □ Console ×
                                                                                                                                                  1 Collections.java X
                                                                                                                       <terminated> Collections [Java Application] C:\Users\Administrator\,p2\;
 1 package demo;
 30 import java.util.ArrayList;
                                                                                                                         Apple
 4 import java.util.HashSet;
                                                                                                                         Banana
 5 import java.util.List;
                                                                                                                         Cherry
 6 import java.util.Set;
                                                                                                                         Set:
                                                                                                                         Apple
 8 public class Collections {
                                                                                                                         Cherry
9⊕
      public static void main(String[] args) {
                                                                                                                         Mango
           List<String> list = new ArrayList<>();
10
                                                                                                                        Banana
            list.add("Apple");
12
            list.add("Banana");
13
           list.add("Cherry");
14
            System.out.println("List:");
16
            for (String item : list) {
17
                System.out.println(item);
19
20
           Set<String> set = new HashSet<>();
21
            set.add("Apple");
22
            set.add("Banana");
            set.add("Cherry");
23
24
            set.add("Banana"); // duplicates are not allowed in a set
            set.add("Mango");
25
            set.add("Apple");
            System.out.println("Set:");
27
28
           for (String item : set) {
29
                System.out.println(item);
31
       }
32 }
                                                                                                                                □ □ □ Console ×

    ☐ Collections.java    ☐ Collections1.java ×
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                                                                                                                                      <terminated > Collections1 [Java Application] C:\Use
  40 import java.util.ArrayList;
                                                                                                                                      Integer List:
 5 import java.util.HashSet;
6 import java.util.List;
7 import java.util.Set;
                                                                                                                                     Float Set:
    public class Collections1 {
                                                                                                                                     1.0
2.5
       public static void main(String[] args) {
    // ArrayList of Integers
                                                                                                                                     2.568
             List<Integer> intList = new ArrayList<>();
                                                                                                                                      3.14
              intList.add(1);
                                                                                                                                     Double List:
              intList.add(6);
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40
             intList.add(8);
                                                                                                                                     2.718286
                                                                                                                                      1.6180374
              System.out.println("Integer List:");
              for (Integer item : intList) {
                  System.out.println(item);
             // HashSet of Floats
              Set<Float> floatSet = new HashSet<>();
              floatSet.add(1.0f);
              floatSet.add(2.5f);
              floatSet.add(3.14f);
              floatSet.add(2.568f); // duplicates are not allowed in a set
              System.out.println("Float Set:");
             for (Float item : floatSet) {
    System.out.println(item);
              // ArrayList of Doubles
             List<Double> doubleList = new ArravList<>();
```