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:

Collections.java

```java
package demo;

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);
        }
    }
}
```

Console

```
<terminated> Collections [Java Application] C:\Users\Administrator\.p2\
List:
Apple
Banana
Cherry
Set:
Apple
Cherry
Mango
Banana
```

Collections.java | Collections1.java

```java
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);
        }
    }
}
```

Console

```
<terminated> Collections1 [Java Application] C:\Use
Integer List:
1
6
8
Float Set:
1.0
2.5
2.568
3.14
Double List:
3.14159
2.718286
1.6180374
```