

Phase-1 Practice Project: Assisted Practice

5. Writing a program in Java to verify implementations of collections

```
package Mydemo;

import java.util.*;

public class Collections {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        System.out.println("ArrayList");

        ArrayList<String> city = new ArrayList<String>();

        city.add("Karimnagar");

        city.add("Warangal");

        System.out.println(city);

        System.out.println("\n");

        System.out.println("Vector");

        Vector<Integer>vec = new Vector();

        vec.addElement(22);

        vec.addElement(31);

        System.out.println(vec);

        System.out.println("\n");

        System.out.println("LinkedList");

        LinkedList<String> names = new LinkedList<String>();

        names.add("Sathwik");

        names.add("Sreeramoju");

        Iterator<String> itr = names.iterator();

        while(itr.hasNext())

        {
```

```
System.out.println(itr.next());

}

System.out.println("\n");

System.out.println("HashSet");

HashSet<Integer> set = new HashSet<Integer>();

set.add(30);

set.add(12);

set.add(10);

set.add(21);

System.out.println(set);

System.out.println("\n");

System.out.println("linkedhashset");

LinkedHashSet<Integer> sets = new LinkedHashSet<Integer>();

sets.add(20);

sets.add(30);

sets.add(40);

sets.add(50);

System.out.println(sets);

}

}
```

<terminated> Collections [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe

ArrayList

[Karimnagar, Warangal]

Vector

[22, 31]

LinkedList

Sathwik

Sreeramoju

HashSet

[21, 10, 12, 30]

linkedhashset

[20, 30, 40, 50]

