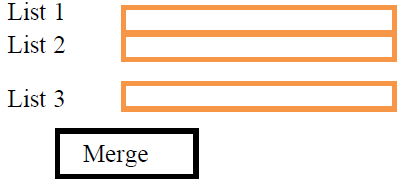
**15)** Write an Android code to merge given two Array/List



activity\_merge\_List.xml: -

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

xmlns:android="http://schemas.android.com/apk/res/android" >

<EditText

android:id="@+id/et1"

android:layout\_width="214dp"

android:layout\_height="68dp"

android:layout\_alignParentTop="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="126dp"

android:layout\_marginEnd="19dp"

android:layout\_marginBottom="537dp"

android:hint="@string/enter\_the\_first\_list"

android:inputType="text"

android:minHeight="48dp"

android:textColorHint="#757575"

tools:ignore="TouchTargetSizeCheck" />

<EditText

android:id="@+id/et2"

android:layout\_width="wrap\_content"

android:layout\_height="66dp"

android:layout\_alignParentStart="true"

android:layout\_alignParentTop="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_centerHorizontal="true"

android:layout\_marginStart="157dp"

android:layout\_marginTop="209dp"

android:layout\_marginEnd="51dp"

android:layout\_marginBottom="455dp"

android:hint="@string/enter\_the\_second\_list"

android:inputType="text"

android:minHeight="48dp"

android:textColorHint="#757575"

tools:ignore="TouchTargetSizeCheck" />

<EditText

android:id="@+id/et3"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_alignParentTop="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="350dp"

android:layout\_marginEnd="0dp"

android:layout\_marginBottom="309dp"

android:hint="@string/result"

android:inputType="text"

android:minHeight="48dp"

tools:ignore="TouchTargetSizeCheck" />

<Button

android:id="@+id/M"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentBottom="true"

android:layout\_centerHorizontal="true"

android:layout\_marginBottom="148dp"

android:text="@string/merge" />

<EditText

android:id="@+id/normalET"

android:layout\_width="101dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentTop="true"

android:layout\_alignParentEnd="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="76dp"

android:layout\_marginTop="146dp"

android:layout\_marginEnd="234dp"

android:layout\_marginBottom="539dp"

android:ems="10"

android:inputType="textPersonName"

android:text="@string/list1" />

<EditText

android:id="@+id/editTextTextPersonName4"

android:layout\_width="70dp"

android:layout\_height="wrap\_content"

android:layout\_alignParentStart="true"

android:layout\_alignParentTop="true"

android:layout\_marginStart="83dp"

android:layout\_marginTop="223dp"

android:ems="10"

android:inputType="textPersonName"

android:text="@string/list\_2" />

</RelativeLayout>

Merge\_list.java:-

package com.example.a551042;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import java.util.Arrays;

import java.util.HashSet;

import java.util.Iterator;

import java.util.StringTokenizer;

public class mergeList extends AppCompatActivity {

EditText et1, et2, et3;

Button M;

HashSet<Integer> l1, l2, l3;

StringTokenizer st1, st2;

HashSet hs;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_merge\_list*);

et1= findViewById(R.id.*et1*);

et2= findViewById(R.id.*et2*);

et3= findViewById(R.id.*et3*);

M = findViewById(R.id.*M*);

l1= new HashSet<>();

l2= new HashSet<>();

l3= new HashSet<>();

hs= new HashSet<>();

M.setOnClickListener(new View.OnClickListener() {

@SuppressLint("SetTextI18n")

@Override

public void onClick(View view) {

st1= new StringTokenizer(et1.getText().toString()," ");

while(st1.hasMoreTokens()){

l1.add(Integer.*parseInt*(st1.nextToken()));

}

st2 = new StringTokenizer(et2.getText().toString()," ");

while(st2.hasMoreTokens()){

l2.add(Integer.*parseInt*(st2.nextToken()));

}

l3.addAll(l1);

l3.addAll(l2);

Toast.*makeText*(mergeList.this,"Merged list is "+ l3, Toast.*LENGTH\_LONG*).show();

int farr[] = new int[l3.size()];

Iterator<Integer> it = l3.iterator();

int i=0;

while(it.hasNext())

{

farr[i]= Integer.*parseInt*(String.*valueOf*(it.next()));

i++;

}

et3.setText("Merged List is: "+Arrays.*toString*(farr));

}

});

}

}