**import** java.util.ArrayList;

**import** java.util.Comparator;

**import** java.util.HashMap;

**import** java.util.List;

**import** java.util.function.BiConsumer;

**import** java.util.function.Consumer;

**public** **class** DayTwoAssignmentCountries {

**public** **static** **void** main(String args[]) {

//countries list

List<String> countriesList=**new** ArrayList<String>();

countriesList.add("India");

countriesList.add("UK");

countriesList.add("Bangladesh");

countriesList.add("United States");

Consumer<String> countries = **new** Consumer<String>() {

@Override

**public** **void** accept(String t) {

System.***out***.println(t);

}

};

countriesList.forEach(countries);

System.***out***.println();

//countries and capitals

BiConsumer<String, String> action = (a, b) ->

{

System.***out***.println(a+"capital is "+b);

};

HashMap<String, String> capitals = **new** HashMap<>();

capitals.put("India","Delhi");

capitals.put("UK","London");

capitals.put("Bangladesh","Dhaka");

capitals.put("United States","Washington");

capitals.forEach(action);

//sort countries by name in reverse alphabetical order.

countriesList.sort((s1,s2)->s1.length()-s2.length());

System.***out***.println("sort by name length.."+countriesList);

System.***out***.println();

countriesList.sort(Comparator.*reverseOrder*());

System.***out***.println("Countries in reverse alphabetical order"+countriesList);

System.***out***.println();

//sort the list in descending order based on char length

**int** size = countriesList.size();

System.***out***.println("Size of the arrayList:::"+size);

System.***out***.println();

**for**(**int** i=0;i<countriesList.size();i++) {

**if**(countriesList.get(i).length()>6) {

countriesList.remove(i);

}

}

System.***out***.println("removed country name greater than 6 charaters."+countriesList);

}

}