**TASK**

Android linear layout is used to align all the UIs along a linear, be the line be horizontal or vertical.

Android relative layout is used to align all the UIs relative to each other.

The UI can be relative to the container or relative to its siblings( the already existing UIs) or relative to another element specified. We should also note that the ID must be made and specified for use to the latter two, i.e. relative to siblings and relative to another element.

Alignments relative to the container are:-

* android:layout\_alignParentBottom : Places the bottom of the element on the bottom of the container
* android:layout\_alignParentLeft : Places the left of the element on the left side of the container
* android:layout\_alignParentRight : Places the right of the element on the right side of the container
* android:layout\_alignParentTop : Places the element at the top of the container
* android:layout\_centerHorizontal : Centers the element horizontally within its parent container
* android:layout\_centerInParent : Centers the element both horizontally and vertically within its container
* android:layout\_centerVertical : Centers the element vertically within its parent container

Alignments relative to siblings are:-

* android:layout\_above : Places the element above the specified element
* android:layout\_below : Places the element below the specified element
* android:layout\_toLeftOf : Places the element to the left of the specified element
* android:layout\_toRightOf : Places the element to the right of the specified element

Alignments with respect to another element are:-

* android:layout\_above : Places the element above the specified element
* android:layout\_below : Places the element below the specified element
* android:layout\_toLeftOf : Places the element to the left of the specified element
* android:layout\_toRightOf : Places the element to the right of the specified element

Q2. The dashboard should have a back button, a search bar, a title saying book-ed, all the books and their respective prices in alphabetical order or recommendation order (can’t be implimented by my current knowlege), an add book button and a notification button.

Q3. The design has been drawn on a page and uploaded.

ALL the subsequent questions presented on a sheet.

Code for the layout shown.

<LinearLayout xmlns:android="https://schemas.android.com/apk/res/android"

android:orientation="vertical"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:layout\_margin="@dimen/activity\_horizontal\_margin">

<Button

android:id="@+id/backbutton"

android:text="Back"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

<TextView

android:id="@+id/Title"

android:text="Book-ED"

android:textSize="18sp"

android:layout\_margin="5dp"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

<Button

android:id="@+id/Notifications"

android:text="<Icon>"

android:layout\_margin=”5dp”

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" />

<RelativeLayout

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

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

<Button

android:id="@+id/addbook"

android:text="+”

android:layout\_width="wrap\_content"

android:layout\_alignLeft=”@id/Notifications”

android:layout\_marginTop=”37dps”

android:layout\_height="wrap\_content" />

<TextEdit

android:id="@+id/search"

android:text="search”

android:layout\_width="wrap\_content"

android:layout\_alignLeft=”@id/Title”

android:layout\_marginTop=”37dps”

android:layout\_height="wrap\_content" />