NATIONAL UNIVERSITY
OF COMPUTER & EMERGING SCIENCES
LAHORE

Course	Software for Mobile Devices Answer Sheet No. **55829**
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$10 + 20$ $\frac{20}{30}$ $\frac{30}{30}$

Q1)(i) In the Java file for the fragment, create
the following:

```
@override
protected void onAttach (@NonNull context context)
{
    super (context);
    context.makeToast
    Toast.makeToast (context, "welcome Mid-2 SMD",
            TOAST-LENGTH_SHORT) . show ();
}
```

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Q1)(ii)
```
Button btnCallMe;
etPhone()
EditText etPhoneNum;
@override
protected void onCreate (Bundle savedInstance)
in the OnCreate function for activity:
{ super(savedInstance);
    btnCallMe = findViewById ("btnCallMe");
    etPhoneNum = findViewById ("etPhoneNum");

    btnCallMe.setOnClickListener (new OnClick Listener () {
    {
        String phoneNum = etPhoneNum.getText()
                    .toString().trim();
        Intent i = new Intent (this, ACTION_DIAL);
        i.setData ( Uri.parse "tel:"+Uri.parse(phoneNum));
        i.startActivity ();
    }
}
```

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Q1)(iii) We can make two layouts: portrait (layout) and landscape (layout_land).

In the layout, we can define ids, portrait or landscape, i.e. android:id = "@id/layout"

Then, we can create an object of class Layout in the Java class and check by getting via id.

```
Layout portrait;
portrait = findViewById("portrait");
if (portrait == null)
    // This indicates landscape
else
    // This indicates portrait.
```

Q2)(ii) activity_winners.xml:

```
< ConstraintLayout
android:layout_width = "match_parent"
" : layout_height = "  "


    < LinearLayout
    < RelativeLayout
    < LinearLayout
        id = "lt"
        android:layout_width = "wrap_content"
        " : layout_height: "  "
        " :orientation: horizontal
        " : gravity: center
        ":layout_margin: 24dp


        < Button
        android:id "@id/btnweekly"
        android:layout_width = "wrap content"
        android:layout_height = "match_parent"
        android:layout_padding = 24dp
        android:text = "weekly"
        android:textColor = " #000000"
        android:background = "color/gray"
        android:selected:textColor = "#FFFFFF"
```

```
<! -- Make two more buttons
     identical to the button made previously.
     Only different is android:text = "Monthly"
     and android:text = "All Time" for each
     also, make different ids -->.

/LinearLayout>


<View
 android - contraint -Top - toBottomOf = "btnweekly"
android:layout_width = "wrap_content"
" layout_height = "
    <View
      "layout_width = wrap_content  50%
      "layout_height = - 50%
      android:background = "drawable/picture"
    />
    <TextView
      "layout_width = "wrap_content"
      "layout_height =  "
      "text = " 2"
      "layout_padding = 12dp
      "layout_marginTop = - 6dp
      "background = " #00000"
      "textColor: "#FFFFFF"
    />
    <TextView
      "layoutwidth = "wrap_content"
      "layout_height "
      "text = " strings/secondName" + "/n" +
             " string/secondScore"
    />

/>

/>
```

```
<! -- Now make two more views like
this. only difference is that 2nd View
we will have child view width and height
os 100%. and 3rd will be 50%.
other than that, their textViews will be
1 and firstName, and 3 and middlename
respectively. Also, adjust constraint layout.
so, 3rd view is bottomof Monthly. -->
```

```
<View
    "orientation = "horizontal"
    " layout _height = "wrap_ content
    " layout _width = "wrap_ content.
    " controllayout _constraint _ Top to Bottom Of = "LL"
    " layout _ margin Top = " 128dp"
    <TextView id = " V1"
        <TextView
            text="4"
        />
        <View
            src= " profile"
        />
        <TextView
            text = "strings / @fouerthname"
        />
        <TextView
            text = "strings / four Mscore"
            margin_ left = 12 dp
        />
    />

    <!-- Now make 4 more views, constraintTop_
        toBottom Uf = <previousId> .
        Adjust data in textviews acording ly -->.
```

Q2(i)
```
           @override
protected void
        OnListItemClicked ( ListView l, View u, position p,  index
        {
            String address = addressList. get (i);
            Intent  i = new Intent ( this, Action-VIEW,
                Uri. parse ("geo(0,0)?q ="+ address);
            i. setPackage ( com.google.apps.maps);
            i. startActivity ();     4/4
        }
```

Q2)(ii) In the Main Activity. java, we will
create the 3 buttons:

~~btn btn~~ Button btn Weekly, btn Monthly, btn AllTime

```
                          onCreate
protected void onCreate ( bundle si)
{
    super (si);
                          fm
    Fragment Manager = get support Fragment Manager ();
    Fragment weekly_frag= fm. find FragmentById ("
                                            weekly_frag");
    "    " monthly_frag = " ("monthly_frag");
    "    all_time_frag = " (" all_time_frag");

    btnweekly = find View ById ("btn weekly " );
    btn Monthly = find View ById ("btn Monthly");
    btn AllTime = find View ById (" btnAllTime");

    btnweekly .setOnClickListener ( new OnClickListener()
        {
            fm. beginTransaction .show (weekly_frag)
             .hide(monthly_frag).hide (all_timefrag)
             . commit ();
        }
    );


    // Similary, create onClickListeners for other two
    // buttons.
    // For monthly button, in beginTransaction only
    //show monthly_frag and hide the rest
    // For all time button, show all_time_frag
    //and hide the rest.
}
```

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