#### Part -A

5. Implement web view concept in application which contains multiple activity and default HTML pages.

```
Create 2 Activities
```

- a)Q2Main.java
- b) Q5WebView.java

<uses-permission android:name="android.permission.INTERNET"/>

```
Add internet request to manifest file
a)
public class Q2Main extends AppCompatActivity
  Button defaultPage;
  Button loadPage;
  EditText url:
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_q2_main);
    defaultPage = (Button) findViewById(R.id.defaultPage);
    loadPage = (Button) findViewByld(R.id.loadURL);
    url = (EditText) findViewById(R.id.url);
    ActivityCompat.requestPermissions(Q2Main.this, new
String[]{Manifest.permission.INTERNET}, 1);
    defaultPage.setOnClickListener(new View.OnClickListener()
       @Override
       public void onClick(View v) {
         Intent i = new Intent(getApplicationContext(), Q5WebView.class);
         i.putExtra("load", "defaultpage");
         startActivity(i);
    });
```

```
loadPage.setOnClickListener(new View.OnClickListener()
             @Override
                               public void onClick(View v) {
       Intent i = new Intent(getApplicationContext(), Q5WebView.class);
       i.putExtra("load", url.getText().toString());
       startActivity(i);
    });
  }}
Q5WebView.java
public class Q5WebView extends AppCompatActivity
  WebView page;
  @Override
  protected void onCreate(Bundle savedInstanceState)
        super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_q5_web_view);
    page = (WebView) findViewById(R.id.WebView);
    page.setWebViewClient(new WebViewClient());
    Intent i = getIntent();
    String url = i.getStringExtra("load");
    if(url.equals("defaultpage"))
       page.loadUrl("http://172.16.2.10");
    }
     else
         page.loadUrl(url);
 }
```

### activity\_main.xml (this for main activity UI)

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
android:layout_height="match_parent" tools:context="com.example.ananthu.finalsee.Q2Main"
android:gravity="center" android:orientation="vertical">
  <TextView
                android:layout_width="match_parent"
android:layout_height="wrap_content"
 android:text="Web View!"
android:textAlignment="center"
android:textSize="30dp"
android:paddingBottom="100px"/>
             android:id="@+id/defaultPage"
  <Button
 android:layout width="wrap content"
android:layout_height="wrap_content"
android:text="Default Page"
android:layout_margin="50px"/>
  <EditText
               android:id="@+id/url"
 android:layout_width="match_parent"
android:layout_height="wrap_content"
android:hint="Enter Web URL"
android:textAlignment="center"
android:layout_margin="50px"/>
  <Button
             android:id="@+id/loadURL"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Load Page"/>
</LinearLayout>
```

# activity\_q5\_web\_view.xml (this for webview activity UI)

6. Implement an app to store and retrieve data by using shared preference.

```
public class MainActivity extends AppCompatActivity implements View.OnClickListener
  EditText ed1,ed2,ed3;
  Button b1:
  public static final String MyPREFERENCES = "MyPrefs";
  public static final String Name = "nameKey";
  public static final String Phone = "phoneKey";
  public static final String Email = "emailKey";
  SharedPreferences sharedpreferences;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    ed1=(EditText)findViewById(R.id.editText);
    ed2=(EditText)findViewById(R.id.editText2);
    ed3=(EditText)findViewBvId(R.id.editText3):
    b1=(Button)findViewById(R.id.button);
    b1.setOnClickListener(this);
    sharedpreferences = getSharedPreferences(MyPREFERENCES,
Context. MODE_PRIVATE);
  public void onClick(View v) {
    String n = ed1.getText().toString();
    String ph = ed2.getText().toString();
    String e = ed3.getText().toString();
    SharedPreferences.Editor editor = sharedpreferences.edit();
    editor.putString(Name, n);
    editor.putString(Phone, ph);
    editor.putString(Email, e);
    editor.commit():
    Toast.makeText(MainActivity.this,"Thanks",Toast.LENGTH_LONG).show();
  }
}
```

1. Implement an AsyncTask to count from 1 to 100 in the background and the display the progress using progress bar on the screen.

```
public class MainActivity extends AppCompatActivity
  private ProgressBar pgsBar;
  private int i = 0;
  private TextView txtView;
  Thread t:
  @Override
  protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    pgsBar = (ProgressBar) findViewById(R.id.pBar);
    txtView = (TextView) findViewById(R.id.tView);
    Button btn = (Button) findViewById(R.id.btnShow);
    btn.setOnClickListener(new View.OnClickListener()
             @Override
    public void onClick(View v)
       pgsBar.setProgress(0);
       new AsyncTask<String, Integer, String>()
          @Override
         protected String doInBackground(String[] params)
            int i = 0;
         int max = Integer.parseInt(params[0]);
         while(i < max)
            try
            Thread.sleep(100);
              i++;
              publishProgress(i);
         catch (Exception ex){
            Log.e("error", ex.toString());
```

```
return null;
}

return null;
}

@Override
protected void onProgressUpdate(Integer... values)
{
    super.onProgressUpdate(values);
    pgsBar.setProgress(values[0]);
    txtView.setText(values[0].toString());
}
}.execute("100");
}
}
```

2. Implement a service concept to play the music in the background for long duration and perform a foreground job.

```
public class MusicService extends Service
  MediaPlayer music;
  @Override
  public void onCreate()
        super.onCreate();
    music = MediaPlayer.create(this, R.raw.dre);//music file location
  @Override
  public void onStart(Intent intent, int startId)
    super.onStart(intent, startId);
    music.start();
  }
  @Override
  public void onDestroy()
    super.onDestroy();
    music.stop();
  @Override
  public IBinder onBind(Intent intent)
    return null;
public class MusicPlayer extends AppCompatActivity
  Button play, stop, color;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_music_player);
    play = (Button) findViewById(R.id.Play);
    stop = (Button) findViewById(R.id.Stop);
    color = (Button) findViewById(R.id.ChangeColor);
    play.setOnClickListener(new View.OnClickListener()
```

```
@Override
       public void onClick(View v)
         startService(new Intent(getApplicationContext(), MusicService.class));
       }
    });
    stop.setOnClickListener(new View.OnClickListener()
       @Override
       public void onClick(View v)
         stopService(new Intent(getApplicationContext(), MusicService.class));
       }
    });
    color.setOnClickListener(new View.OnClickListener()
       @Override
       public void onClick(View v)
         LinearLayout II = (LinearLayout) findViewById(R.id.layout);
         Random gen = new Random();
  II.setBackgroundColor(Color.rgb( gen.nextInt(255), gen.nextInt(255),
gen.nextInt(255)
));
});
 }
```

### 3. Implement broadcast receiver to carry out one of following:

}

```
public class MainActivity extends AppCompatActivity {
  TextView mBatteryLevelText;
  ProgressBar mBatteryLevelProgress;
  BroadcastReceiver mReceiver:
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    mBatteryLevelText = (TextView) findViewByld(R.id.textView):
    mBatteryLevelProgress = (ProgressBar) findViewByld(R.id.progressBar);
    mReceiver = new BroadcastReceiver() {
       public void onReceive(Context context, Intent intent) {
         int level = intent.getIntExtra(BatteryManager.EXTRA LEVEL, 0);
         mBatteryLevelText.setText("Battery Level : " + level);
         mBatteryLevelProgress.setProgress(level);
         RelativeLayout rl = (RelativeLayout) findViewByld(R.id. r1);
         if (level > 60)
           rl.setBackgroundColor(Color. GREEN);
         else if (level > 30)
           rl.setBackgroundColor(Color. BLUE);
           rl.setBackgroundColor(Color. RED);
    };
  }
  @Override
  protected void onStart()
    super.onStart();
    registerReceiver(mReceiver, new IntentFilter(Intent.ACTION_BATTERY_CHANGED));
  }
  @Override protected void onStop()
    unregisterReceiver(mReceiver);
    super.onStop();
```

## 8. Make dialogue box to confirm the change of background color or image.

```
public class MainActivity extends AppCompatActivity implements View.OnClickListener
  Button closeButton;
  AlertDialog.Builder builder;
  @Override
  protected void onCreate(Bundle savedInstanceState)
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    closeButton = (Button) findViewById(R.id.button);
    builder = new AlertDialog.Builder(this);
    closeButton.setOnClickListener(this);
  }
     @Override
    public void onClick(View v)
       builder.setMessage("Do you want to close this application ?")
            .setCancelable(false)
         .setPositiveButton("Yes", new DialogInterface.OnClickListener()
              public void onClick(DialogInterface dialog, int id)
                 finish();
                 Toast.makeText(getApplicationContext(),"you choose yes action for
alertbox".
                     Toast. LENGTH_SHORT).show();
            })
            .setNegativeButton("No", new DialogInterface.OnClickListener()
              public void onClick(DialogInterface dialog, int id)
                 // Action for 'NO' Button
                 dialog.cancel();
 Toast.makeText(getApplicationContext(),"you choose no action for alertbox",
                     Toast. LENGTH SHORT).show();
}
            });
       //Creating dialog box
       AlertDialog alert = builder.create();
       //Setting the title manually
```

```
alert.setTitle("AlertDialogExample");
    alert.show();
}
```