**MainActivity.java**

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.util.Log;

**public class** MainActivity **extends** AppCompatActivity {

String **tag**= **"Android Lifecycle Demonstration"**;

@Override **protected void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState); setContentView(R.layout.***activity\_main***);

Log.*d*(**tag**,**"In the onCreate() event"**);

}

**public void** onStart() {

**super**.onStart(); Log.*d*(**tag**,**"In the onStart() event"**);

}

**public void** onRestart() {

**super**.onRestart(); Log.*d*(**tag**,**"In the onRestart() event"**);

}

**public void** onPause() {

**super**.onPause(); Log.*d*(**tag**,**"In the onPause() event"**);

}

**public void** onStop() {

**super**.onStop(); Log.*d*(**tag**,**"In the onStop() event"**);

}

**public void** onDestroy() {

**super**.onDestroy(); Log.*d*(**tag**,**"In the onDestroy() event"**);

}

}

b) Life Cycle of fragments

ProjectName>App>src>main>Java

3. Right click on Java and select **‘Add Fragment’>Add Fragment(Blank)**

Give a name to the fragment and click Finish

**public class** LifeCycleofFragment **extends** Fragment {

String **tag** = **"Life Cycle of Fragment"**;

*//* ***TODO: Rename parameter arguments, choose names that match***

*// the fragment initialization parameters, e.g. ARG\_ITEM\_NUMBER* **private static final** String ***ARG\_PARAM1*** = **"param1"**;

**private static final** String ***ARG\_PARAM2*** = **"param2"**;

*//* ***TODO: Rename and change types of parameters***

**private** String **mParam1**;

**private** String **mParam2**;

**private** OnFragmentInteractionListener **mListener**;

**public** LifeCycleofFragment() {

*//* ***TODO: Rename and change types and number of parameters* public static** LifeCycleofFragment newInstance(String param1, String param2)

{

LifeCycleofFragment fragment = **new** LifeCycleofFragment();

Bundle args = **new** Bundle();

args.putString(***ARG\_PARAM1***, param1);

args.putString(***ARG\_PARAM2***, param2);

fragment.setArguments(args);

**return** fragment;

}

@Override **public void** onCreate(Bundle savedInstanceState) { **super**.onCreate(savedInstanceState);

**if** (getArguments() != **null**) {

**mParam1** = getArguments().getString(***ARG\_PARAM1***);

**mParam2** = getArguments().getString(***ARG\_PARAM2***);

}

}

@Override **public** View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState)

{

//*Inflate the layout for this fragment*

**return** inflater.inflate(R.layout.***fragment\_life\_cycleof***, container, **false**);

}

*//* ***TODO: Rename method, update argument and hook method into UI event* public void** onButtonPressed(Uri uri) {

**if** (**mListener** != **null**) { **mListener**.onFragmentInteraction(uri);

}

}

@Override **public void** onAttach(Context context) { **super**.onAttach(context);

**if** (context **instanceof** OnFragmentInteractionListener) {

**mListener** = (OnFragmentInteractionListener) context; }

**else** {

**throw new** RuntimeException(context.toString() + **" must implement OnFragmentInteractionListener"**);

}

}

@Override **public void** onDetach() {

**super**.onDetach(); **mListener** = **null**;

}

**public interface** OnFragmentInteractionListener {

*//* ***TODO: Update argument type and name***

**void** onFragmentInteraction(Uri uri);

}

**public void** onStart() {

**super**.onStart(); Log.*d*(**tag**,**"In the onStart() event"**);

}

**public void** onRestart() {

Log.*d*(**tag**,**"In the onRestart() event"**);

}

**public void** onPause() {

**super**.onPause();

Log.*d*(**tag**,**"In the onPause() event"**);

} **public void** onStop() {

**super**.onStop(); Log.*d*(**tag**,**"In the onStop() event"**);

}

**public void** onDestroy() {

**super**.onDestroy();

Log.*d*(**tag**,**"In the onDestroy() event"**); } }