

TASK -7

Grid Activity

GridItemActivity.java

```
package com.dreamproject.gridactivity;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.MenuItem;
import android.widget.ImageView;
import android.widget.TextView;

public class GridItemActivity extends AppCompatActivity {

    TextView griddata;
    ImageView imageView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_grid_item);

        griddata = findViewById(R.id.griddata);
        imageView = findViewById(R.id.imageView);
        Intent intent = getIntent();
        String receivedName = intent.getStringExtra("name");
        int receivedImage = intent.getIntExtra("image",0);
```

```
griddata.setText(receivedName);  
imageView.setImageResource(receivedImage);  
//enable back Button  
getSupportActionBar().setDisplayHomeAsUpEnabled(true);  
}
```

```
@Override
```

```
public boolean onOptionsItemSelected(MenuItem item) {  
    if (item.getItemId() == android.R.id.home) {  
        onBackPressed();  
    }  
    return super.onOptionsItemSelected(item);  
}
```

```
}
```

```
@Override
```

```
public void onBackPressed() {  
    super.onBackPressed();  
}  
}
```

MainActivity.java

```
package com.dreamproject.gridactivity;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
```

```
import android.media.Image;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```

import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.BaseAdapter;
import android.widget.CursorAdapter;
import android.widget.GridView;
import android.widget.ImageView;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    GridView gridView;

    String[] fruitNames = {"Apple","Orange","strawberry","Melon","Kiwi","Banana"};
    int[] fruitImages =
    {R.drawable.apple,R.drawable.oranges,R.drawable.strawberry,R.drawable.watermelon,R.dra
wable.kiwi,R.drawable.banana};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        //finding listview
        gridView = findViewById(R.id.gridview);

        CustomAdapter customAdapter = new CustomAdapter();
        gridView.setAdapter(customAdapter);
        gridView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
                //
                Toast.makeText(getApplicationContext(),fruitNames[i],Toast.LENGTH_LONG).show();
                Intent intent = new Intent(getApplicationContext(),GridItemActivity.class);
            }
        });
    }
}

```

```
        intent.putExtra("name",fruitNames[i]);  
        intent.putExtra("image",fruitImages[i]);  
        startActivity(intent);  
  
    }  
});
```

```
}
```

```
private class CustomAdapter extends BaseAdapter {
```

```
    @Override
```

```
    public int getCount() {  
        return fruitImages.length;  
    }
```

```
    @Override
```

```
    public Object getItem(int i) {  
        return null;  
    }
```

```
    @Override
```

```
    public long getItemId(int i) {  
        return 0;  
    }
```

```
    @Override
```

```
    public View getView(int i, View view, ViewGroup viewGroup) {  
        View view1 = getLayoutInflater().inflate(R.layout.row_data,null);  
        //getting view in row_data
```

```

        TextView name = view1.findViewById(R.id.fruits);
        ImageView image = view1.findViewById(R.id.images);

        name.setText(fruitNames[i]);
        image.setImageResource(fruitImages[i]);
        return view1;
    }
}
}

```

GridItemActivity.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    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=".GridItemActivity">

    <TextView
        android:id="@+id/griddata"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="105dp"
        android:text="Apple"
    >

```

```
android:textSize="30dp" />
```

```
<ImageView
```

```
    android:id="@+id/imageView"
```

```
    android:layout_width="289dp"
```

```
    android:layout_height="334dp"
```

```
    android:layout_below="@+id/griddata"
```

```
    android:layout_centerHorizontal="true"
```

```
    android:layout_marginTop="27dp"
```

```
    android:src="@drawable/apple" />
```

```
</RelativeLayout>
```

MainActivity.xml

```
<?xml version="1.0" encoding="utf-8"?>
```

```
    <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
        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=".MainActivity">
```

```
    <GridView
```

```
        android:id="@+id/gridview"
```

```
        android:numColumns="2"
```

```
        android:verticalSpacing="1dp"
```

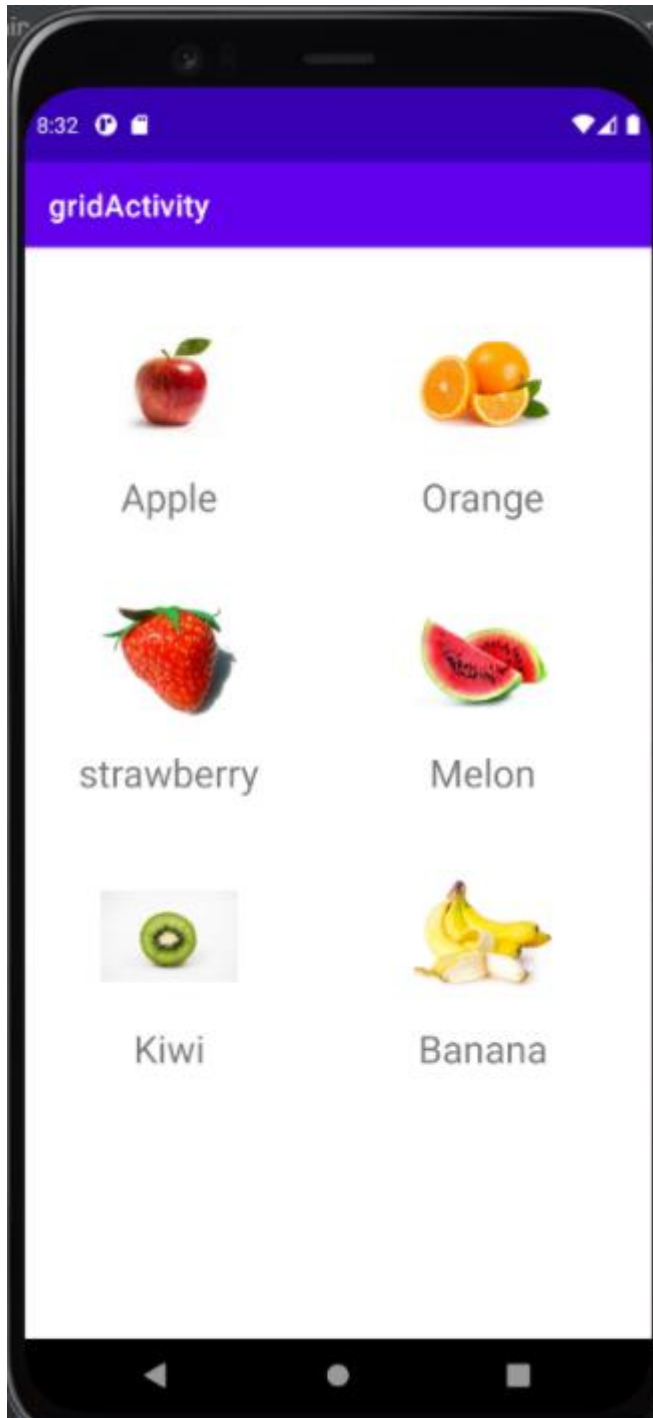
```
        android:horizontalSpacing="1dp"
```

```
        android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"/>
```

```
</RelativeLayout>
```

Output:



List View Activity:

MainActivity.java

```
package com.example.listview_spinner;
```

```
import android.os.Bundle;
```

```
import com.google.android.material.floatingactionbutton.FloatingActionButton;
```

```
import com.google.android.material.snackbar.Snackbar;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import androidx.appcompat.widget.Toolbar;
```

```
import android.view.View;
```

```
import android.view.Menu;
```

```
import android.view.MenuItem;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import android.widget.AdapterView;
```

```
import java.lang.reflect.Array;
```

```
public class MainActivity extends AppCompatActivity {
```

```
    GridView gridview;
```



```

String string[]=
{"One","Two","Three","Four","Five","Six","Seven","Eight","Nine","Ten"};

@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    Toolbar toolbar = findViewById(R.id.toolbar);

    setSupportActionBar(toolbar);


    gridview=findViewById(R.id.gridview);


    ArrayAdapter<String> adapter=new ArrayAdapter<String>(MainActivity.this,
    android.R.layout.simple_list_item_1,string);

    gridview.setAdapter(adapter);


    gridview.setOnItemClickListener(new AdapterView.OnItemClickListener() {

        @Override

        public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

            Toast.makeText(MainActivity.this,"You
select:"+string[position],Toast.LENGTH_SHORT).show();

        }

    });

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

    // Inflate the menu; this adds items to the action bar if it is present.

    getMenuInflater().inflate(R.menu.menu_main, menu);

    return true;

}

```

@Override

```
public boolean onOptionsItemSelected(MenuItem item) {  
    // Handle action bar item clicks here. The action bar will  
    // automatically handle clicks on the Home/Up button, so long  
    // as you specify a parent activity in AndroidManifest.xml.  
    int id = item.getItemId();  
  
    //noinspection SimplifiableIfStatement  
    if (id == R.id.action_settings) {  
        return true;  
    }  
  
    return super.onOptionsItemSelected(item);  
}  
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<androidx.coordinatorlayout.widget.CoordinatorLayout  
    xmlns:android="http://schemas.android.com/apk/res/android"  
    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=".MainActivity"  
    android:background="@color/white">  
  
    <com.google.android.material.appbar.AppBarLayout  
        android:layout_width="match_parent"
```

```
android:layout_height="wrap_content"
android:theme="@style/AppTheme.AppBarOverlay">

<androidx.appcompat.widget.Toolbar
    android:id="@+id/toolbar"
    android:layout_width="match_parent"
    android:layout_height="?attr/actionBarSize"
    android:background="?attr/colorPrimary"
    app:popupTheme="@style/AppTheme.PopupOverlay">
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="LISTVIEW"
    android:padding="10sp"
    android:textSize="25sp"
    android:textStyle="bold"/>
</androidx.appcompat.widget.Toolbar>
```

```
</com.google.android.material.appbar.AppBarLayout>
```

```
<include layout="@layout/content_main" />
```

```
</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

Content.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
xmlns:app="http://schemas.android.com/apk/res-auto"  
android:layout_width="match_parent"  
android:layout_height="match_parent"  
android:orientation="vertical"  
app:layout_behavior="@string/appbar_scrolling_view_behavior">
```

```
<GridView  
    android:background="@drawable/cloud"  
    android:id="@+id/gridview"  
    android:layout_marginTop="25sp"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:numColumns="1"  
/>
```

```
</LinearLayout>
```

Output:

