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20MCA301

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S3 MCA

MAD LAB INTERNAL EXAM

Implement Options menu, which contains options linke settings, share, gallery, contacts. Navigate to gallery activity which display list of images in grid view and shows an alert box with a message"Do you want to delete this image " on selection

MainActivity.java

```java
package com.example.internal_301;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.option_menu, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.i3:
                            Intent  i1  =  new  Intent(getApplicationContext(),
MainActivity2.class);
```

```java
                startActivity(i1);
            default:
                return super.onOptionsItemSelected(item);
        }
    }
}
```

MainActivity2.java

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

import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.GridView;

public class MainActivity2 extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        GridView gv = (GridView) findViewById(R.id.gd);
        gv.setAdapter(new ImageAdapter(this));
        AlertDialog.Builder builder = new AlertDialog.Builder(this);

        gv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
                public void onItemClick(AdapterView<?> parent, View v, int
position, long id) {

                builder.setMessage("Do you want to delete this image")
                        .setCancelable(false)
                                            .setPositiveButton("Ok", new
DialogInterface.OnClickListener() {
                                public void onClick(DialogInterface dialog, int
id) {
                                }
                        });
```

```java
                AlertDialog alert = builder.create();

                alert.setTitle("Info Alert");
                alert.show();
            }


        });
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.option_menu, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.i3:
                        Intent  i1  =  new  Intent(getApplicationContext(),
MainActivity2.class);
                startActivity(i1);
            default:
                return super.onOptionsItemSelected(item);
        }
    }
}
```

ImageAdapter.java

```java
package com.example.internal_301;

import android.content.Context;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.GridView;

import android.widget.ImageView;
```

```java
public class ImageAdapter extends BaseAdapter {

    private Context mContext;

    public ImageAdapter(Context c) {

        mContext = c;

    }

    public int getCount() {

        return thumbImages.length;

    }

    public Object getItem(int position) {

        return null;

    }

    public long getItemId(int position) {

        return 0;

    }

     public View getView(int position, View convertView, ViewGroup parent)
{

        ImageView imageView = new ImageView(mContext);

        imageView.setLayoutParams(new GridView.LayoutParams(200, 200));

        imageView.setScaleType(ImageView.ScaleType.CENTER_CROP);

        imageView.setPadding(8, 8, 8, 8);

        imageView.setImageResource(thumbImages[position]);

        return imageView;

    }


    public Integer[] thumbImages = {
```

```
//              image name

        R.drawable.i1,

        R.drawable.i2,

        R.drawable.i1,

        R.drawable.i2,

        R.drawable.i1,

        R.drawable.i2

    };

}
```

activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
    android:background="#A7F8AA"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="174dp"
        android:layout_height="77dp"
        android:text="HOME"
        android:textAlignment="center"
        android:textSize="34sp"
        android:textStyle="bold|italic"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_main2.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
    android:background="#E6DC85"
    tools:context=".MainActivity2">

    <GridView
        android:id="@+id/gd"
        android:layout_width="366dp"
        android:layout_height="487dp"
        android:numColumns="3"
        android:padding="5dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.522" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="166dp"
        android:layout_height="41dp"
        android:text="Gallery"
        android:textAlignment="center"
        android:textSize="24sp"
        android:textStyle="bold|italic"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.042" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Option_menu.xml

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

<menu xmlns:app="http://schemas.android.com/apk/res-auto"

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

    <item
```

```xml
        android:id="@+id/i1"

        android:title="Setting" />
    <item

        android:id="@+id/i2"

        android:title="Share" />

    <item

        android:id="@+id/i3"

        android:title="Gallery" />

    <item

        android:id="@+id/i4"

        android:title="Contact" />
</menu>
```
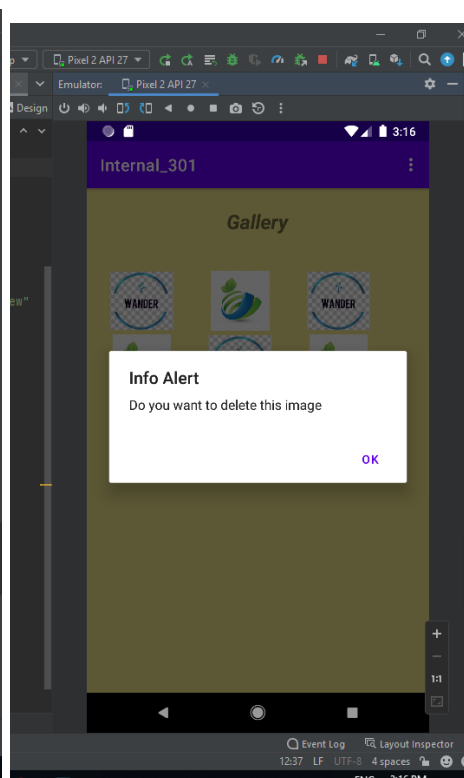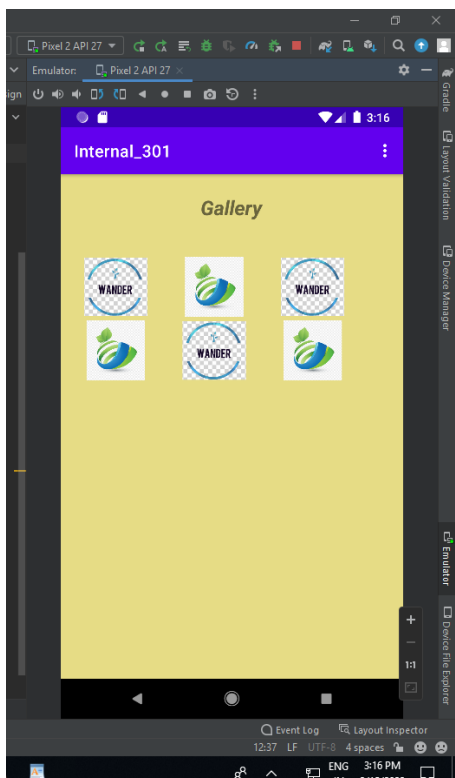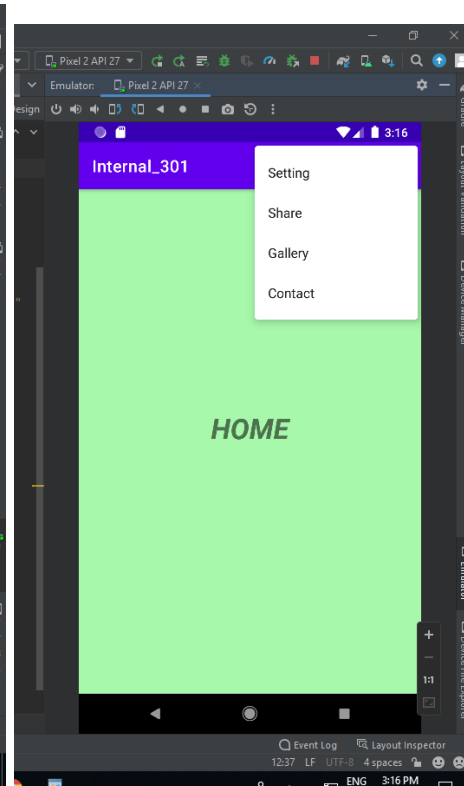
Output:

Result:

Output obtained successfully