**Q.1) Android programming for notification and alert box.**

**Code:**

package com.example.alertbox;

import android.app.AlertDialog;

import android.content.DialogInterface;

import android.os.Bundle;

import android.widget.Toast;

import androidx.activity.EdgeToEdge;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.graphics.Insets;

import androidx.core.view.ViewCompat;

import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

EdgeToEdge.enable(this);

setContentView(R.layout.activity\_main);

ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {

Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());

v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);

return insets;

});

}

@Override

public void onBackPressed() {

// super.onBackPressed();

AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);

builder.setMessage("Do you want to exit");

builder.setTitle("Alert!");

builder.setCancelable(false);

builder.setPositiveButton("Yes", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialogInterface, int i) {

finish();

}

});

builder.setNegativeButton("No", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialogInterface, int i) {

Toast.makeText(MainActivity.this, "You clicked on cancel", Toast.LENGTH\_SHORT).show();

}

});

AlertDialog alertDialog = builder.create();

alertDialog.show();

}

}

**Output:**

**A screenshot of a phone

Description automatically generated**

**A white rectangular object with black text

Description automatically generated**