

1. CGPA

```
package com.example.program1;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
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 {

    EditText e1, e2, e3, e4, e5;

    Button b1;

    TextView res;

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_main);

        e1 = (EditText) findViewById(R.id.e1);
        e2 = (EditText) findViewById(R.id.e2);
        e3 = (EditText) findViewById(R.id.e3);
        e4 = (EditText) findViewById(R.id.e4);
        e5 = (EditText) findViewById(R.id.e5);

        res = (TextView) findViewById(R.id.result);
```

```

b1 = (Button) findViewById(R.id.b1);
b1.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        String n1, n2, n3, n4, n5;
        n1 = e1.getText().toString();
        n2 = e2.getText().toString();
        n3 = e3.getText().toString();
        n4 = e4.getText().toString();
        n5 = e5.getText().toString();

        float cgpa = (Float.parseFloat(n1) + Float.parseFloat(n2) + Float.parseFloat(n3) +
Float.parseFloat(n4) + Float.parseFloat(n5)) / 5;

        res.setText(String.valueOf(cgpa));
    }
});
}
}

```

2. EMAIL PASSWORD

```

package com.example.login_p2;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
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 {

    EditText e1,e2;

    Button b1;

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_main);

        e1 = (EditText) findViewById(R.id.email);

        e2 =(EditText) findViewById(R.id.pwd);

        b1 =(Button) findViewById(R.id.btn);

        b1.setOnClickListener(new View.OnClickListener() {

            public void onClick(View view) {

                String email = e1.getText().toString();

                String pwd =e2.getText().toString();

                if (email.equals("admin@example.com") && pwd.equals("rtWi2p_10"))

                {

                    Toast.makeText(MainActivity.this,"Redirecting....",Toast.LENGTH_SHORT).show();

                    Intent intent = new Intent(MainActivity.this, HOME_P2.class);

                    startActivity(intent);

                }

                else

                    Toast.makeText(MainActivity.this, "Wrong Credentials....",

Toast.LENGTH_SHORT).show();

            }

        });

        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;

    });

}

}
```

HOME_P2

```
package com.example.login_p2;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
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 HOME_P2 extends AppCompatActivity {

    Button b2;

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_home_p2);

        b2=(Button) findViewById(R.id.btn1);

        b2.setOnClickListener(new View.OnClickListener() {

            public void onClick(View view) {

                Intent conn= new Intent(HOME_P2.this, MainActivity.class);

                startActivity(conn);

            }

        });

    }

}
```

```

        }
    });
    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;
    });
}
}

```

3. PHONE NUMBER VALIDATION

```

package com.example.prog3;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
import com.example.prog3.R;

public class MainActivity extends AppCompatActivity {
    EditText e1;
    Button b1;
    protected void onCreate(Bundle savedInstanceState) {

```

```

super.onCreate(savedInstanceState);
EdgeToEdge.enable(this);
setContentView(R.layout.activity_main);
e1=(EditText) findViewById(R.id.edittxtph) ;
b1=(Button) findViewById(R.id.btn);
b1.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        AlertDialog.Builder alert =new AlertDialog.Builder(MainActivity.this);
        alert.setTitle("PHONE NUMBER FORMATE");
        alert.setCancelable(true);
        if (e1.length()==10){
            alert.setMessage("PHONE NUMBER IS VALID ");
        }
        else {
            alert.setMessage("PHONE NUMBER IS IN-VALID");
        }
        alert.show();
    }
});
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;
});
}

```

4. PLANETS

```
package com.example.pro_4;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import androidx.activity.EdgeToEdge;
import androidx.activity.result.ActivityResult;
import androidx.activity.result.ActivityResultLauncher;
import androidx.activity.result.contract.ActivityResultContracts;
import androidx.annotation.Nullable;
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 {

    TextView tv;

    Button btn1;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        btn1 = (Button) findViewById(R.id.btn1);

        btn1.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
                Intent conn = new Intent(getApplicationContext(), home_p4.class);
                startActivity(conn);
            }
        });
    }
}
```

```

        startActivityForResult(conn, 1);
    }
});
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;
});
}
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    tv = (TextView) findViewById(R.id.tv);
    if (requestCode == 1)
        if (requestCode == RESULT_OK){
            String res = data.getStringExtra("PLANETS");
            tv.setText(String.valueOf(res));
        }
    }
}

```

Home_Page

```

package com.example.pro_4;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

```



```
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 home_p4 extends AppCompatActivity {
    Button btn2;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        btn2 =(Button) findViewById(R.id.btn2);
        btn2.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
                Intent in =getIntent();
                in.putExtra("PLANETS","total number of planets are 9");
                setResult(RESULT_OK,in);
                finish();
            }
        });
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_home_p4);
        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;
        });
    }
}
```

5. RADIO BUTTON

```
package com.example.pro5;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.RadioButton;
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 {
    Button btn1;
    RadioButton rd1,rd2,rd3,rd4;
    ImageView right,wrong;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        btn1 =(Button) findViewById(R.id.btn);
        rd1 =(RadioButton) findViewById(R.id.rd1);
        rd2=(RadioButton) findViewById(R.id.rd2);
        rd3=(RadioButton) findViewById(R.id.rd3);
        rd4=(RadioButton) findViewById(R.id.rd4);
```

```

right=(ImageView) findViewById(R.id.right);
wrong=(ImageView) findViewById(R.id.wrong);
btn1.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        int cnt=0;
        if (rd4.isChecked()){
            right.setVisibility(View.INVISIBLE);
            wrong.setVisibility(View.VISIBLE);
        }
        if (rd3.isChecked()){
            right.setVisibility(View.INVISIBLE);
            wrong.setVisibility(View.VISIBLE);}
        if(rd2.isChecked()){
            right.setVisibility(View.INVISIBLE);
            wrong.setVisibility(View.VISIBLE);}
        if (rd1.isChecked()){
            wrong.setVisibility(View.INVISIBLE);
            right.setVisibility(View.VISIBLE);
            cnt = cnt+1;}

        Toast.makeText(MainActivity.this, "Total" +String.valueOf(cnt),
Toast.LENGTH_SHORT).show();

    }
});
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;
});
}
}

```

6. CHECK BOX

```
package com.example.myapplication;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.TextView;
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 {

    CheckBox cb1,cb2,cb3;

    Button btn1,btn2;

    TextView tv1;

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_main);

        cb1=(CheckBox)findViewById(R.id.cb1);
        cb2=(CheckBox)findViewById(R.id.cb2);
        cb3=(CheckBox)findViewById(R.id.cb3);
        tv1=(TextView)findViewById(R.id.tv1);
        btn1=(Button)findViewById(R.id.btn1);
```

```

btn2=(Button)findViewById(R.id.btn2);
btn1.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        int total=0;
        if (cb1.isChecked()){
            total=total+1000;
        }
        if (cb2.isChecked()){
            total=total+800;
        }
        if (cb3.isChecked()){
            total=total+500;
        }
        tv1.setText("total:"+String.valueOf(total));
    }
});
btn2.setOnClickListener(new View.OnClickListener() {
    public void onClick(View view) {
        Toast.makeText(MainActivity.this, "Redirecting to payment ",
Toast.LENGTH_SHORT).show();
    }
});
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;
});
}
}

```

7. MENU

```
package com.example.program9;

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.example.program9.R;

public class MainActivity extends AppCompatActivity {
    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;
        });
    }

    public boolean onCreateOptionsMenu(Menu menu) {
        MenuItem settingsItem = menu.add(Menu.NONE, 1, Menu.NONE, "Setting");
        MenuItem aboutItem = menu.add(Menu.NONE, 2, Menu.NONE, "About");
    }
}
```

```

MenuItem File = menu.add(Menu.NONE, 3, Menu.NONE, "File");
return true;
}

public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    TextView t1 = findViewById(R.id.t1);
    int x=item.getItemId();
    switch(item.getItemId()){
        case 1:
            t1.setText("Show all Setting");
            return true;
        case 2:
            t1.setText("Display about Anroid");
            return true;
        case 3:
            t1.setText("Details about FILE");
            return true;
        default:
            return super.onOptionsItemSelected(item);
    }
}
}

```

style.css

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
        <item name="colorPrimary">@color/design_default_color_primary</item>
        <item name="colorPrimaryDark">@color/design_default_color_primary_dark</item>
    </style>

```

```
        <item name="colorAccent">@color/design_default_color_background</item>
    </style>
</resources>
```

android manifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```


8. NAME USN BRANCH

```
package com.example.p8p8;

import android.os.Bundle;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.EditText;
import android.widget.LinearLayout;
import android.widget.TextView;

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 {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);

        EditText e1=new EditText(this);
        e1.setText("NAME");
        e1.setTextSize(20);

        EditText e2=new EditText(this);
        e2.setText("USN");
```

```
e2.setTextSize(20);
```

```
EditText e3=new EditText(this);
```

```
e3.setText("BRANCH");
```

```
e3.setTextSize(20);
```

```
Button b1=new Button(this);
```

```
b1.setText("SUBMIT");
```

```
b1.setTextSize(20);
```

```
TextView t1=new TextView(this);
```

```
t1.setText("NAME");
```

```
t1.setTextSize(20);
```

```
TextView t2=new TextView(this);
```

```
t2.setText("USN");
```

```
t2.setTextSize(20);
```

```
TextView t3=new TextView(this);
```

```
t3.setText("BRANCH");
```

```
t3.setTextSize(20);
```

```
LinearLayout linear = new LinearLayout(this);
```

```
linear.setOrientation(LinearLayout.VERTICAL);
```

```
linear.addView(e1);
```

```
linear.addView(e2);
```

```
linear.addView(e3);
```

```
linear.addView(b1);
```

```
linear.addView(t1);
```

```
linear.addView(t2);
```

```
linear.addView(t3);
```

```
LinearLayout.LayoutParams params=new  
LinearLayout.LayoutParams(LinearLayout.LayoutParams.MATCH_PARENT,LinearLayout.Layo  
utParams.WRAP_CONTENT);
```

```
this.addView(linear,params);
```

```
b1.setOnClickListener(new View.OnClickListener() {
```

```
    public void onClick(View v) {
```

```
        String st=e1.getText().toString();
```

```
        t1.setText(st);
```

```
        String st2=e2.getText().toString();
```

```
        t2.setText(st2);
```

```
    }
```

```
});
```

```
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;
```

```
});
```

```
}
```

```
}
```

9. BRANCH

```
package com.example.p9spinner;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Spinner;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import java.lang.reflect.Array;

public class MainActivity extends AppCompatActivity {

    String[] str = {"Select branch", "CSE", "ISE"};

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_main);

        Spinner sp = (Spinner) findViewById(R.id.spinner);

        ArrayAdapter<String> adp = new ArrayAdapter<>(getApplicationContext(),
android.R.layout.simple_dropdown_item_1line);

        sp.setAdapter(adp);

        sp.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {

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

                int index = adapterView.getSelectedItemPosition();
```

```

        if (index == 1) {
            Intent CSE = new Intent(getApplicationContext(), spin2.class);
            startActivity(CSE);
        }
        if (index == 2) {
            Intent ISE = new Intent(getApplicationContext(), ise.class);
            startActivity(ISE);
        }
    }

    public void onNothingSelected(AdapterView<?> parent) {
    }

});

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;
});
}
}

```

CSE

```

package com.example.p9spinner;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
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 spin2 extends AppCompatActivity {

    Button btn_cse;

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_spin2);

        btn_cse=(Button) findViewById(R.id.btn_cse);

        btn_cse.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {

                Intent c = new Intent(spin2.this,MainActivity.class);

                startActivity(c);

            }

        });

        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;

        });

    }

}

```

ISE

```

package com.example.p9spinner;

import android.content.Intent;

```

```
import android.os.Bundle;

import android.view.View;

import android.widget.Button;

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 ise extends AppCompatActivity {

    Button btn_ise;

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_ise);

        btn_ise=(Button) findViewById(R.id.btn_ise);

        btn_ise.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {

                Intent i = new Intent(ise.this,MainActivity.class);

                startActivity(i);

            }

        });

        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;

        });

    }

}
```

10.E-MAIL

```
package com.example.a11prog;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

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 {
    private EditText eTo;
    private EditText eSub;
    private EditText eMsg;
    private Button btn;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        eTo=(EditText) findViewById(R.id.edit_text_to);
        eMsg=(EditText) findViewById(R.id.edit_text_sub);
        eMsg=(EditText) findViewById(R.id.edit_text_msg);
        btn =(Button) findViewById(R.id.button_send);
```



```

btn.setOnClickListener(new View.OnClickListener() {
    public void onClick(View v) {
        String list =eTo.getText().toString();
        String[] rec=list.split(",");
        String sub =eSub.getText().toString();
        String msg = eMsg.getText().toString();
        Intent it=new Intent(Intent.ACTION_SEND);
        it.putExtra(Intent.EXTRA_EMAIL,rec);
        it.putExtra(Intent.EXTRA_SUBJECT,sub);
        it.putExtra(Intent.EXTRA_TEXT,msg);
        it.setType("message/rfc822");
        startActivity(Intent.createChooser(it,"Choose mail APP"));
    }
});
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;
});
}
}

```

11.GRID

```
package com.example.a10pro;

import android.content.Context;
import android.os.Bundle;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.GridView;
import android.widget.ImageView;
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 {

    Integer logos[] ={R.drawable.chef,R.drawable.cart,R.drawable.a1,R.drawable.shades};

    GridView gv;

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        EdgeToEdge.enable(this);

        setContentView(R.layout.activity_main);

        gv = (GridView) findViewById(R.id.g1);

        gv.setAdapter(new ImageAdapter(this,logos));

    }

    public class ImageAdapter extends BaseAdapter{

        private Context mContext;

        private Integer[] img;
```

```
public ImageAdapter(Context c,Integer[] imageIds) {  
    mContext = c;  
    img = imageIds;  
}  
public int getCount() {  
    return img.length;  
}  
public Object getItem(int i) {  
    return img[i];  
}  
public long getItemId(int i) {  
    return i;  
}  
public View getView(int i, View convertView, ViewGroup viewGroup) {  
    ImageView imageView;  
    imageView = new ImageView(mContext);  
    imageView.setLayoutParams(new GridView.LayoutParams(300,300));  
    imageView.setPadding(8,8,8,8);  
    imageView.setImageResource(img[i]);  
    return imageView;  
}  
}  
}
```

12.FILE DOWNLOAD

```
package com.example.last;

import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.widget.Button;
import android.widget.ProgressBar;
import android.widget.TextView;

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 {
    private int ps = 0;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        Button b1 = (Button)findViewById(R.id.button);
        TextView Tv1=(TextView)findViewById(R.id.tv1);
        TextView Tv2 =(TextView)findViewById(R.id.tv2);
        ProgressBar p1=(ProgressBar)findViewById(R.id.progressBar);
        Handler handler=new Handler();
        b1.setOnClickListener(new View.OnClickListener() {
            public void onClick(View view) {
```

```
p1.setVisibility(View.VISIBLE);
Tv1.setVisibility(View.VISIBLE);
Tv2.setVisibility(View.VISIBLE);
new Thread(new Runnable() {
    public void run() {
        while (ps<100){
            ps+=1;
            handler.post(new Runnable() {
                public void run() {
                    p1.setProgress(ps);
                    Tv1.setText(ps+"/"+p1.getMax());
                }
            });
            try {
                Thread.sleep(200);
            }catch (InterruptedException e){
                e.printStackTrace();
            }
        }
        Tv2.setText("File Downloaded");
    }
}).start();
}
});
}
}
```