Login

```java
package com.example.login;
import android.os.Bundle;
import android.view.View;
import android.widget.*;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);

      EditText username = findViewById(R.id.editTextUsername);
      EditText password = findViewById(R.id.editTextPassword);
      Button login = findViewById(R.id.buttonLogin);

      login.setOnClickListener(v -> {
         String user = username.getText().toString().trim();
         String pass = password.getText().toString().trim();
         Toast.makeText(this,
               (user.equals("admin") && pass.equals("pass")) ? "Login successful" : "Invalid username or
password",
               Toast.LENGTH_SHORT).show();
      });
   }
}
```

Intent

```java
package com.example.intent;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main);
   }

   public void onImplicitButtonClicked(View v) {
      startActivity(new Intent(Intent.ACTION_VIEW, Uri.parse("https://www.facebook.com")));
   }

   public void onExplicitButtonClicked(View v) {
      startActivity(new Intent(this, NewActivity.class));
   }
}
```

Mail

```java
package com.example.mail;

import android.os.Bundle;
import android.content.Intent;
import android.view.View;
import android.widget.*;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        EditText to = findViewById(R.id.editTextTo),
            subject = findViewById(R.id.editTextSubject),
            message = findViewById(R.id.editTextMessage);
        Button send = findViewById(R.id.buttonSend);

        send.setOnClickListener(v -> {
            Intent intent = new Intent(Intent.ACTION_SEND);
            intent.setType("text/plain");
            intent.putExtra(Intent.EXTRA_EMAIL, new String[]{to.getText().toString().trim()});
            intent.putExtra(Intent.EXTRA_SUBJECT, subject.getText().toString().trim());
            intent.putExtra(Intent.EXTRA_TEXT, message.getText().toString().trim());

            if (intent.resolveActivity(getPackageManager()) != null)
                startActivity(Intent.createChooser(intent, "Choose an email client"));
        });
    }
}
```

Menu

```java
package com.example.menu;

import android.os.Bundle;
import android.view.*;
import android.widget.Toast;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    @Override
    public boolean onCreatePanelMenu(int featureId, @NonNull Menu menu) {
```

```
    getMenuInflater().inflate(R.menu.menus, menu);
    return true;
  }

  @Override
  public boolean onOptionsItemSelected(@NonNull MenuItem item) {
    int id = item.getItemId();
    String msg = id == R.id.php ? "Php Page" :
            id == R.id.java ? "Java Page" :
            id == R.id.csharp ? "C# Page" : null;
    if (msg != null) Toast.makeText(this, msg, Toast.LENGTH_SHORT).show();
    return super.onOptionsItemSelected(item);
  }
}
```

ScreenOrientation

```
package com.example.screen2;

import android.os.Bundle;
import android.content.pm.ActivityInfo;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    Button lan = findViewById(R.id.lan), por = findViewById(R.id.por);

    lan.setOnClickListener(v -> {
      setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_LANDSCAPE);
      Toast.makeText(this, "Hey! We are in Landscape Orientation", Toast.LENGTH_SHORT).show();
    });

    por.setOnClickListener(v -> {
      setRequestedOrientation(ActivityInfo.SCREEN_ORIENTATION_PORTRAIT);
      Toast.makeText(this, "Hey! We are in Portrait Orientation", Toast.LENGTH_SHORT).show();
    });
  }
}
```

UI

```java
package com.example.ui;

import android.os.Bundle;
import android.content.Context;
import android.content.DialogInterface;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.Spinner;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

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

        Button sub = findViewById(R.id.submit);
        Spinner spinner = findViewById(R.id.country);

        sub.setOnClickListener(v -> showMessage(this, "User Information", "Successfully completed"));

        String[] countries = {"India", "Pakistan", "China", "America", "England"};
        ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple_spinner_item, countries);
        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item);
        spinner.setAdapter(adapter);
    }

    private void showMessage(Context context, String title, String message) {
        new AlertDialog.Builder(context)
            .setTitle(title)
            .setMessage(message)
            .setPositiveButton("OK", (dialog, which) -> dialog.dismiss())
            .show();
    }
}
```