```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import java.io.File;
import java.io.FileOutputStream;
import java.security.SecureRandom;
import javax.crypto.Cipher;
import javax.crypto.CipherOutputStream;
import javax.crypto.KeyGenerator;
import javax.crypto.SecretKey;

public class MainActivity extends AppCompatActivity {

private EditText a;
private EditText b;

private Cipher g;

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

```
a = findViewById(R.id.username_edit_text);
b = findViewById(R.id.password_edit_text);

Button f = findViewById(R.id.login_button);
f.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
handleLogin();
}
});

try {
g = Cipher.getInstance("AES/CTR/NoPadding");
} catch (Exception e) {
e.printStackTrace();
}
}

private void handleLogin() {
String d = a.getText().toString();
String e = b.getText().toString();

SecureRandom random = new SecureRandom();
KeyGenerator keyGenerator = null;
try {
keyGenerator = KeyGenerator.getInstance("AES");
```

```
} catch (Exception f) {
    f.printStackTrace();
}
keyGenerator.init(256, random);
SecretKey secretKey = keyGenerator.generateKey();

try {
g.init(Cipher.ENCRYPT_MODE, secretKey);
CipherOutputStream cos = new CipherOutputStream(
new FileOutputStream(new File(getFilesDir(), "credentials.txt")),
g
);
cos.write((d + "," + e).getBytes());
cos.close();
Toast.makeText(this, "Credentials saved", Toast.LENGTH_SHORT).show();
} catch (Exception h) {
    h.printStackTrace();
}
}
}
```