

PROGRAMMING ASSIGNMENT – II

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Question 13.

(Assignment 1 continue) Create login application where you will have to validate EmailID (username). Till the username and password is not validated,login button should remain disabled.

MainActivity.java

```
package com.example.warlock.validation;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class MainActivity extends AppCompatActivity {

    EditText email,pass;
    Button loginbtn;
    Pattern p;
    String mail;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        email=findViewById(R.id.email);
        pass=findViewById(R.id.pass);
        loginbtn=findViewById(R.id.loginbtn);
        loginbtn.setEnabled(false);
        p=Pattern.compile("."+@"."+\\.[a-z]+");
```

```

email.setOnFocusChangeListener(new View.OnFocusChangeListener() {
    @Override
    public void onFocusChange(View v, boolean hasFocus) {
        mail="alfinwilliam@gmail.com";
        String mailcheck=email.getText().toString();
        Matcher match=p.matcher(mailcheck);
        if(match.matches() && mailcheck.equals(mail))
        {
            Toast.makeText(getApplicationContext(),"Email
verified",Toast.LENGTH_SHORT).show();
        }
        else{
            Toast.makeText(getApplicationContext(),"Invalid
Email",Toast.LENGTH_SHORT).show();
        }
    }
});

pass.setOnFocusChangeListener(new View.OnFocusChangeListener() {
    @Override
    public void onFocusChange(View v, boolean hasFocus) {
        String pasa="admin@123";
        String pasb=pass.getText().toString();
        if(pasb.equals(pasa)){
            Toast.makeText(getApplicationContext(),"Password
verified",Toast.LENGTH_SHORT).show();
            loginbtn.setEnabled(true);
        }
    }
});

loginbtn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent intent=new Intent(MainActivity.this,welcome.class);

```

```

        intent.putExtra("username",mail);
        startActivity(intent);
    }
});
}
}

```

activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    tools:context=".MainActivity"
    android:focusable="true"
    android:focusableInTouchMode="true">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:text="Login Form"
        android:textSize="32sp"
        android:textStyle="bold" />
    <EditText
        android:id="@+id/email"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```

        android:layout_marginTop="100dp"
        android:hint="E-mail" />
<EditText
    android:id="@+id/pass"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Password" />
<Button
    android:id="@+id/loginbtn"
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:layout_gravity="center"
    android:text="Login"
    android:textStyle="bold" />
</LinearLayout>

```

Welcome.java

```

package com.example.warlock.validation;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class welcome extends AppCompatActivity {
    TextView username;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_welcome);
        username=findViewById(R.id.usrname);
    }
}

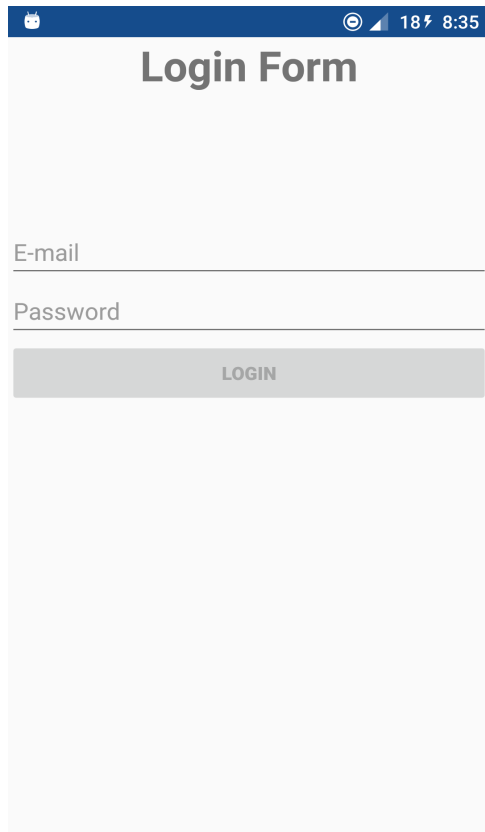
```

```
Intent i=getIntent();  
String s=i.getStringExtra("username");  
username.setText(s);  
}  
}
```

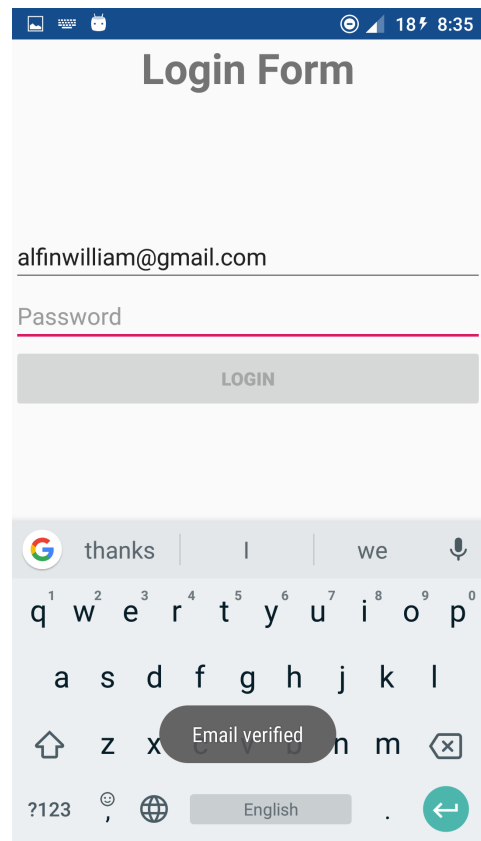
activity_welcome.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout 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:orientation="vertical"  
    tools:context=".welcome">  
    <TextView  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_gravity="center"  
        android:layout_marginTop="100dp"  
        android:text="Welcome"  
        android:textSize="32sp" />  
    <TextView  
        android:id="@+id/username"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_gravity="center"  
        android:layout_marginTop="10dp"  
        android:textSize="32sp" />  
</LinearLayout>
```

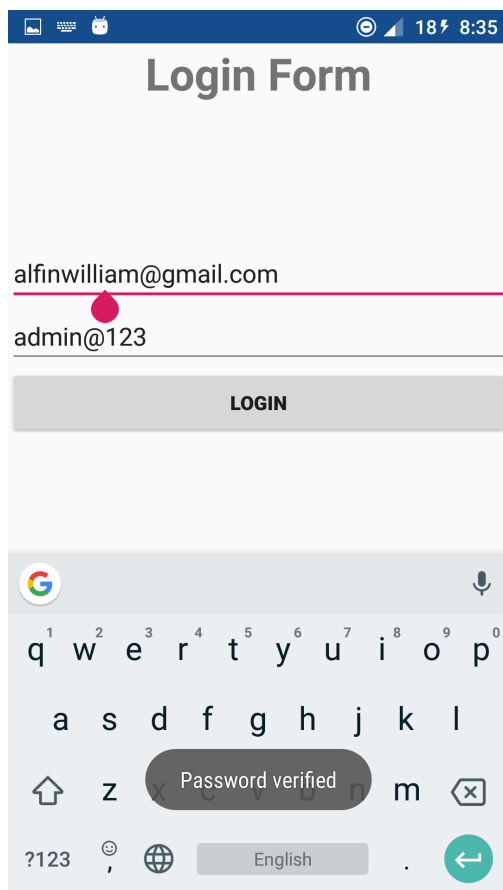
Screenshots:



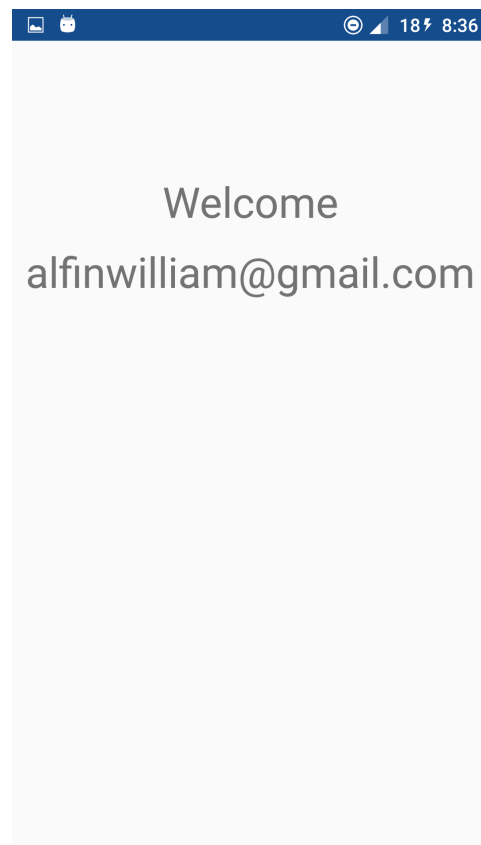
A screenshot of a mobile application's login screen. The title "Login Form" is at the top. Below it are two input fields: "E-mail" and "Password". A grey "LOGIN" button is positioned below the password field. The status bar at the top shows a battery icon, signal strength, and the time 8:35.



A screenshot of the login screen with the email "alfinwilliam@gmail.com" entered in the "E-mail" field and a password entered in the "Password" field. A virtual keyboard is visible at the bottom, and a toast message "Email verified" is displayed over the keyboard. The status bar shows the time 8:35.



A screenshot of the login screen with the email "alfinwilliam@gmail.com" and password "admin@123" entered. A red dot is visible on the email field. A virtual keyboard is at the bottom, and a toast message "Password verified" is displayed over it. The status bar shows the time 8:35.



A screenshot of the "Welcome" screen. The text "Welcome" is at the top, followed by the email "alfinwilliam@gmail.com". The status bar at the top shows the time 8:36.