**PRACTICAL: 3**

**AIM:**

Create and validate a login application using username as Email ID else login button must remain disabled.

**CODE:**

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| **activity\_main.xml**  *<?*xml version="1.0" encoding="utf-8"*?>* <android.support.constraint.ConstraintLayout 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"  tools:context=".MainActivity">  <LinearLayout  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="vertical"  android:gravity="center"  android:padding="10dp">  <EditText  android:id="@+id/edt\_email"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:inputType="textEmailAddress"  android:hint="EMAIL"/>  <EditText  android:id="@+id/edt\_password"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_marginTop="30dp"  android:inputType="textPassword"  android:hint="PASSWORD"/>  <Button  android:id="@+id/btn\_login"  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:layout\_marginTop="30dp"  android:enabled="false"  android:text="LOGIN"/>  </LinearLayout> </android.support.constraint.ConstraintLayout>  **MainActivity.java**  package com.example.nakul.practical2;  import android.support.v7.app.AppCompatActivity; import android.os.Bundle; import android.text.Editable; import android.text.TextWatcher; import android.util.Patterns; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.Toast; import org.w3c.dom.Text; import java.util.regex.Matcher; import java.util.regex.Pattern;  public class MainActivity extends AppCompatActivity {  private EditText edt\_email=null,edt\_password=null;  private Button btn\_login=null;  private String email\_pattern=null, str\_email=null, str\_password=null; private String email=null,password=null;  @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_main*);  edt\_email = (EditText) findViewById(R.id.*edt\_email*);  edt\_password = (EditText) findViewById(R.id.*edt\_password*);  btn\_login = (Button) findViewById(R.id.*btn\_login*);  email="abc@gmail.com";  password="abcd@1234";  *pattern\_email=Pattern.compile(email\_pattern);\*/* edt\_email.addTextChangedListener(new TextWatcher() {  @Override  public void beforeTextChanged(CharSequence s, int start, int count, int after) {    }  @Override  public void onTextChanged(CharSequence s, int start, int before, int count) {   }  @Override  public void afterTextChanged(Editable s) {  str\_email=edt\_email.getText().toString();if (Patterns.*EMAIL\_ADDRESS*.matcher(str\_email).matches()){  btn\_login.setEnabled(true);  btn\_login.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  str\_password=edt\_password.getText().toString();  if (str\_email.equals(email)&&str\_password.equals(password)){  Toast.*makeText*(MainActivity.this, "LOGIN SUCCESS", Toast.*LENGTH\_SHORT*).show();  }  else {  Toast.*makeText*(MainActivity.this, "LOGIN UNSUCCESS", Toast.*LENGTH\_SHORT*).show();  }  }  });  }  else {  btn\_login.setEnabled(false);  }  }  });  } } |

**OUTPUT:**

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