

PROGRAM NO :4

AIM: Implement validations on various UI controls.

PROGRAM CODE:

Mainactivity.java

```
package com.example.validation;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.Button;
import android.widget.EditText;
import android.view.View;
import android.widget.Toast;

import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class MainActivity extends AppCompatActivity {
    EditText ed1, ed2, ed3, ed4, ed5;
    Button bts1;
    Pattern patterns;
    Matcher matches;
    String emailPattern = "[a-zA-Z0-9._-]+@[a-z]+\\.[a-z]+";

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

        setContentView(R.layout.activity_main);
        ed1 = (EditText) findViewById(R.id.editText); ed2 = (EditText) findViewById(R.id.editText2); ed3 = (EditText) findViewById(R.id.editText3); ed4 = (EditText) findViewById(R.id.editText4); String emailPattern = "[a-zA-Z0-9._-]+@[a-z]+\\.[a-z]+"; bts1 = (Button) findViewById(R.id.bt1); bts1.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { login(); } });
    }

    public void login() {
```

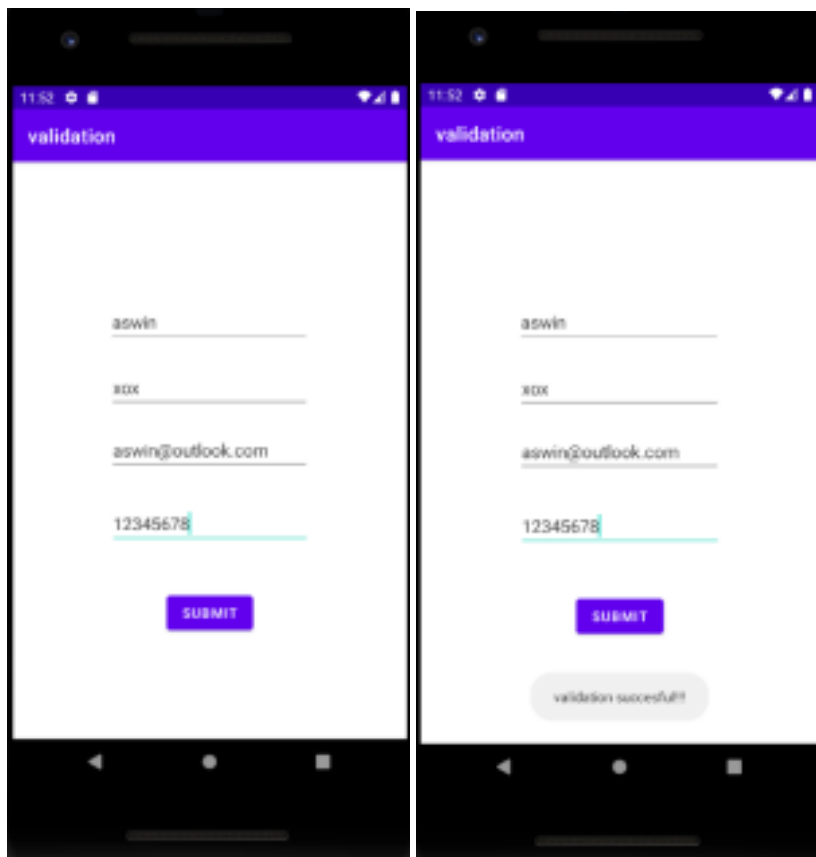
```

String email =
ed3.getText().toString().trim(); String nam = ed1.getText().toString();

if
(ed1.getText().toString().length()
== 0) { ed1.requestFocus();
ed1.setError("Enter valid name");
return;
}
String namePattern = "[0-9!@#$$%^&*]";
if
(ed1.getText().toString().matches(namePattern)) { ed1.requestFocus();
ed1.setError("Enter valid name");
return;
}
if (ed2.getText().toString().length() == 0) {
ed2.requestFocus();
ed2.setError("Enter valid address");
return;
}
if (ed3.getText().toString().length() == 0) {
Toast.makeText(getApplicationContext(), "Invalid Email
Address", Toast.LENGTH_SHORT).show();
ed3.requestFocus();
ed3.setError("Enter valid email");
return;
}
if (!email.matches(emailPattern)) {
ed3.requestFocus();
ed3.setError("Invalid email");
}
} else {
Toast.makeText(getApplicationContext(), "validation
successful!!!", Toast.LENGTH_SHORT).show();
}
if (ed4.getText().toString().length() == 0) {
ed4.requestFocus();
ed4.setError("Enter valid password");
return;
}
if (ed4.getText().toString().length() < 8) {
ed4.requestFocus();
ed4.setError("Enter minimum 8 digit password");
return;
}
}
}
}

```

OUTPUT:



RESULT

Program Has Been Successfully Executed And Output Is Obtained.