## Experiment-1.4

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**Semester: 6th**          **Date of Performance: 06/03/2023**

**Subject Name: MAD LAB**          **Subject Code: 20CSP-356**

**Aim:** Create an Android app that uses Intent and one button to create a page and passes values from one activity to another.

**Objective:** Android app that uses Intent and one button to create a page and passes values from one activity to another.

An intent is to perform an action on the screen. It is mostly used to start activity, send broadcast receiver, start services and send message between two activities. There are two intents available in android as Implicit Intents and Explicit Intents. Here is a sample example to start new activity with old activity.

# Types of Android Intents

There are two types of intents in android: implicit and explicit.

## 1) Implicit Intent

**Implicit Intent** doesn't specifiy the component. In such case, intent provides information of available components provided by the system that is to be invoked.

For example, you may write the following code to view the webpage.

1. Intent intent=**new** Intent(Intent.ACTION_VIEW);
2. intent.setData(Uri.parse("http://www.javatpoint.com"));
3. startActivity(intent);

## 2) Explicit Intent

**Explicit Intent** specifies the component. In such case, intent provides the external class to be invoked.

1. Intent i = **new** Intent(getApplicationContext(), ActivityTwo.**class**);
2. startActivity(i);

**Script and Output:**

**MainActivity.java**

```java
package com.example.intent_experiment;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    Button btn,btn1,submit;
    EditText text,text2;
    TextView result;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn=findViewById(R.id.button);
        btn1=findViewById(R.id.button2);
        submit=findViewById(R.id.submit);
        text=findViewById(R.id.editTextTextPersonName);
        text2=findViewById(R.id.editTextTextPersonName2);
        result=findViewById(R.id.textView2);

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String name=text.getText().toString();
                String pass=text2.getText().toString();
                result.setText("Name=\t\t"+name+ "\nPassword=\t\t"+pass);
            }
        });
        btn1.setOnClickListener(new View.OnClickListener() {
```

```java
            @Override
            public void onClick(View view) {
                text.setText("");
                text2.setText("");
                text.requestFocus();
                result.setText("");
            }
        });

        submit.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String name=text.getText().toString();
                String pass=text2.getText().toString();
//                  startActivity(new Intent(MainActivity.this,intent.class));
                Intent intent=new Intent(MainActivity.this,intent.class);
                intent.putExtra("Username=",name);
                intent.putExtra("Password=",pass);
                startActivity(intent);
            }
        });
    }

}
```

**intent.java**

```java
package com.example.intent_experiment;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;

public class intent extends AppCompatActivity {
    TextView textView,textView1;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_intent);
        textView=findViewById(R.id.textView);
        textView1=findViewById(R.id.textView1);

        textView.setText(getIntent().getExtras().getString("Username="));
        textView1.setText(getIntent().getExtras().getString("Password="));
    }
}
```
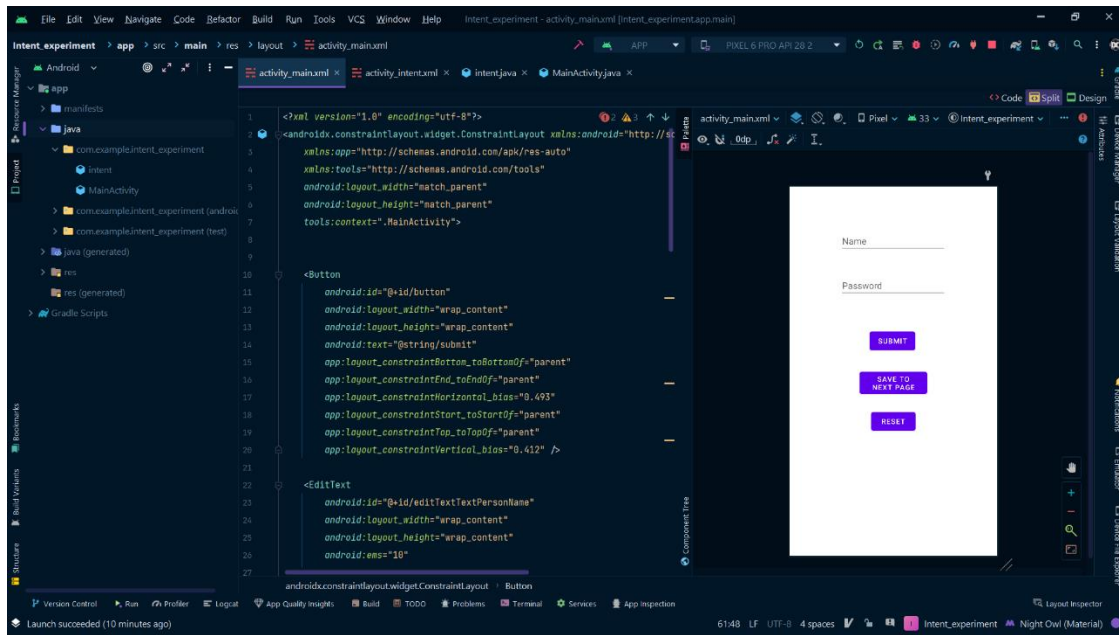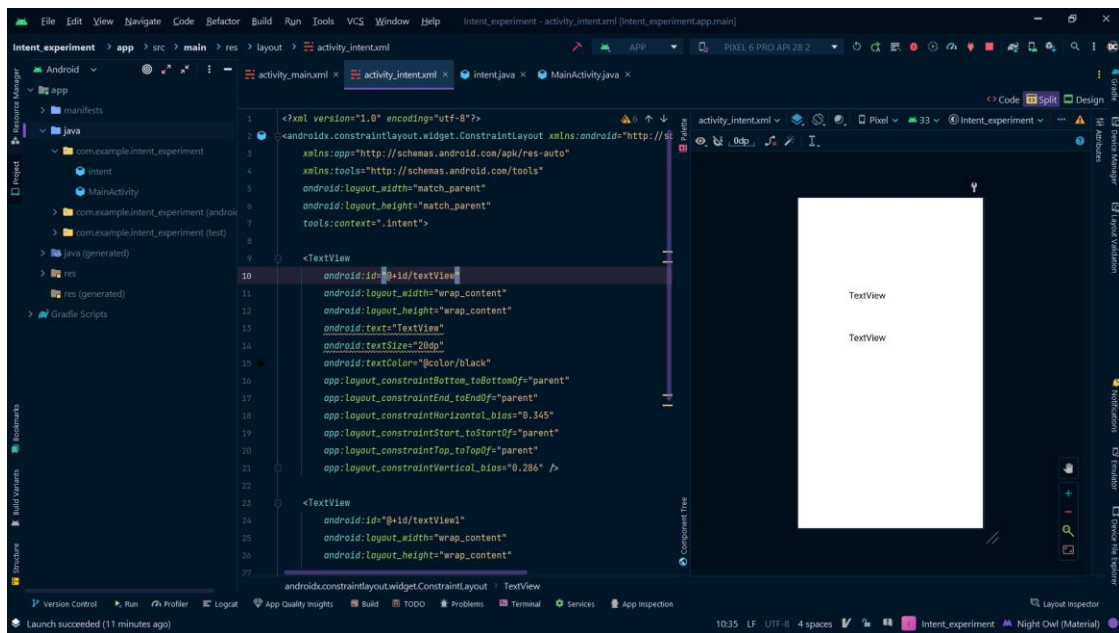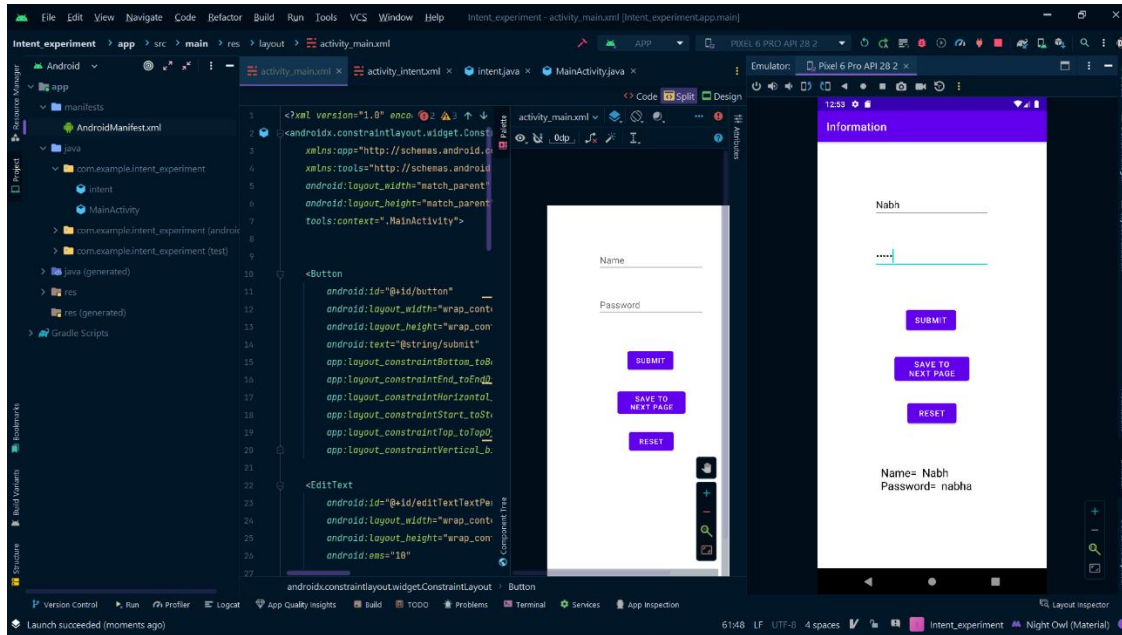
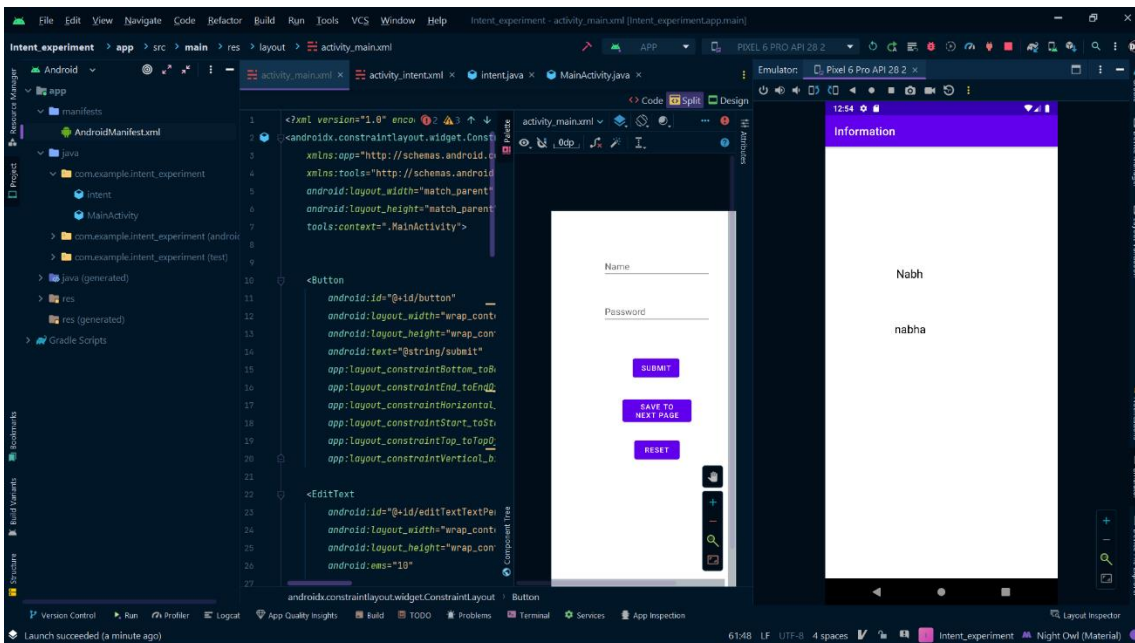# The Layout File

activity_main.xml



activity_intent.xml

# Output

When click on submit button, the output is shown below.



When click on 'save to next page' button, the output is shown on next page.

When click on reset button, the text is erased.