**MainActivity.java**

```java
package com.example.myapplication;
import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
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 {
    TextView tv;
    EditText et;
    Button b;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tv=findViewById(R.id.textView3);
        et=findViewById(R.id.editText);
        b=findViewById(R.id.Hello);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String s=et.getText().toString();
                tv.setText("Welcome "+s);
            }
        });
    }
    public void myNewActivity(View view)
    {
        Intent intent = new Intent(this,newAct.class);
        intent.putExtra("NAME",et.getText().toString());
        intent.putExtra("AGE", 21);
        startActivityForResult(intent , 20);
    }
    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable  Intent data) {
        tv.setText(data.getStringExtra("RESULT"));
    }
}
```

**activity_main.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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">
    <TextView
```

```xml
        android:id="@+id/textView3"
        android:layout_width="324dp"
        android:layout_height="46dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="76dp"
        android:layout_marginEnd="8dp"
        android:text="Welcome"
        android:textSize="30sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <Button
        android:id="@+id/Hello"
        android:layout_width="152dp"
        android:layout_height="90dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        android:layout_marginEnd="8dp"
        android:layout_marginBottom="156dp"
        android:text="OK"
        android:textSize="30sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editText"
        app:layout_constraintVertical_bias="0.227" />
    <EditText
        android:id="@+id/editText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"
        android:layout_marginTop="108dp"
        android:layout_marginEnd="8dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="Name"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView3" />
    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        android:layout_marginEnd="8dp"
        android:layout_marginBottom="8dp"
        android:onClick="myNewActivity"
        android:text="to new activity"
        app:layout_constraintBottom_toBottomOf="parent"
```

```
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/Hello" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

**newAct.java**
```java
package com.example.myapplication;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
public class newAct extends AppCompatActivity {
    TextView tv, tv1;
    String s= "";
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_new);
        Intent intent =getIntent();
        s= intent.getStringExtra("NAME");
        int a = intent.getIntExtra("AGE",0);
        tv= findViewById(R.id.textView);
        tv1 = findViewById(R.id.textView2);
        tv.setText(s);
        tv1.setText(String.valueOf(a));
    }
    public void sendResult(View view)
    {
        Intent intent = new Intent();
        intent.putExtra("RESULT", s.toUpperCase());
        setResult(RESULT_OK , intent );
        finish();
    }
}
```

**activity_new.xml**
```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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=".newAct">
    <Button
        android:id="@+id/button"
        android:layout_width="231dp"
        android:layout_height="125dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
```

```xml
        android:layout_marginEnd="8dp"
        android:layout_marginBottom="8dp"
        android:onClick="sendResult"
        android:text="Send result"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />
    <TextView
        android:id="@+id/textView"
        android:layout_width="277dp"
        android:layout_height="104dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="132dp"
        android:layout_marginEnd="8dp"
        android:text="newAct"
        android:textSize="30sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="202dp"
        android:layout_height="118dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="96dp"
        android:layout_marginEnd="8dp"
        android:text="TextView"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

**OUTPUT:**

| My Application | My Application |
|---|---|
| Welcome | Welcome Jawwad |
| Name | Jawwad |
| **OK** | **OK** |
| TO NEW ACTIVITY | TO NEW ACTIVITY |

My Application

Jawwad

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SEND RESULT