Program 3.

Create an android application to find the factorial of a given number.

Xml code:

```
android:orientation="vertical"
<LinearLayout
    <EditText
        android:inputType="numberDecimal">
    </EditText>
</LinearLayout>
<LinearLayout
        android:layout_width="match_parent"
    </Button>
</LinearLayout>
```

Java code:

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.view.View;
        public void onClick(View v) {
```

```
switch (v.getId()) {
    case R.id.btnAdd:
        oper = "+";
        for(int i=1;i<=num1;i++)
        {
            fact=fact*i;
        }
        result=fact;
        break;
    default:
        break;
}

// form the output line
    tvResult.setText("Factorial of"+ " " + num1 + " = " + result);
}</pre>
```

Output:

