

## Báo cáo bài tập: App các phép toán số học cơ bản

Cộng

The screenshot shows the 'SỐ HỌC ĐƠN GIẢN' app interface for addition. The title bar is orange with the text 'SỐ HỌC ĐƠN GIẢN'. Below it, there are two input fields: 'A =' with the value '9' and 'B =' with the value '8'. Below the input fields are four green buttons with the operators '+', '-', '\*', and '/'. Below the buttons is a white box labeled 'KẾT QUẢ' (Result) which contains the number '17'. The status bar at the top shows 'LTE', signal strength, battery, and the time '3:35'. The bottom navigation bar has three icons: a back arrow, a circle, and a square.

Chia

The screenshot shows the 'SỐ HỌC ĐƠN GIẢN' app interface for division. The title bar is orange with the text 'SỐ HỌC ĐƠN GIẢN'. Below it, there are two input fields: 'A =' with the value '9' and 'B =' with the value '0'. Below the input fields are four green buttons with the operators '+', '-', '\*', and '/'. Below the buttons is a white box labeled 'KẾT QUẢ' (Result) which is empty. Below the result box is a grey error message box that says 'Không thể chia cho 0!' (Cannot divide by 0!). The status bar at the top shows 'LTE', signal strength, battery, and the time '3:37'. The bottom navigation bar has three icons: a back arrow, a circle, and a square.

Trừ

3:42

SỐ HỌC ĐƠN GIẢN

A = 5

B = 6

+

-

\*

/

KẾT QUẢ

-1

Nhân

3:43

SỐ HỌC ĐƠN GIẢN

A = 7

B = 7

+

-

\*

/

KẾT QUẢ

49

activity\_main.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     android:orientation="vertical"
8     tools:context=".MainActivity"
9     android:background="#4472c4">
10
11     <TextView
12         android:layout_width="match_parent"
13         android:layout_height="57dp"
14         android:gravity="center"
15         android:text="SỐ HỌC ĐƠN GIẢN"
16         android:textSize="20sp"
17         android:background="#ed7d31"
18         android:textColor="FFFFFF"
19         android:textStyle="bold"/>
20
21     <LinearLayout
22         android:layout_width="350dp"
23         android:layout_height="wrap_content"
24         android:orientation="horizontal"
25         android:layout_gravity="center"
26         android:layout_marginTop="20dp"
27         android:layout_marginBottom="20dp">
28
29         <TextView
```

```
28
29     <TextView
30         android:layout_width="wrap_content"
31         android:layout_height="50dp"
32         android:layout_marginEnd="10dp"
33         android:layout_weight="1"
34         android:gravity="center"
35         android:text="A = "
36         android:textSize="20sp"
37         android:background="@drawable/bordered_background"
38         android:textStyle="bold"/>
39
40     <EditText
41         android:id="@+id/edtA"
42         android:layout_width="wrap_content"
43         android:layout_height="60dp"
44         android:layout_weight="1"
45         android:ems="10"
46         android:inputType="number"
47         android:textSize="20sp"
48         android:background="@drawable/bordered_background"
49         android:paddingStart="10dp"
50         android:textStyle="bold"/>
51 </LinearLayout>
52
53 <LinearLayout
54     android:layout_width="350dp"
55     android:layout_height="wrap_content"
56     android:orientation="horizontal"
```

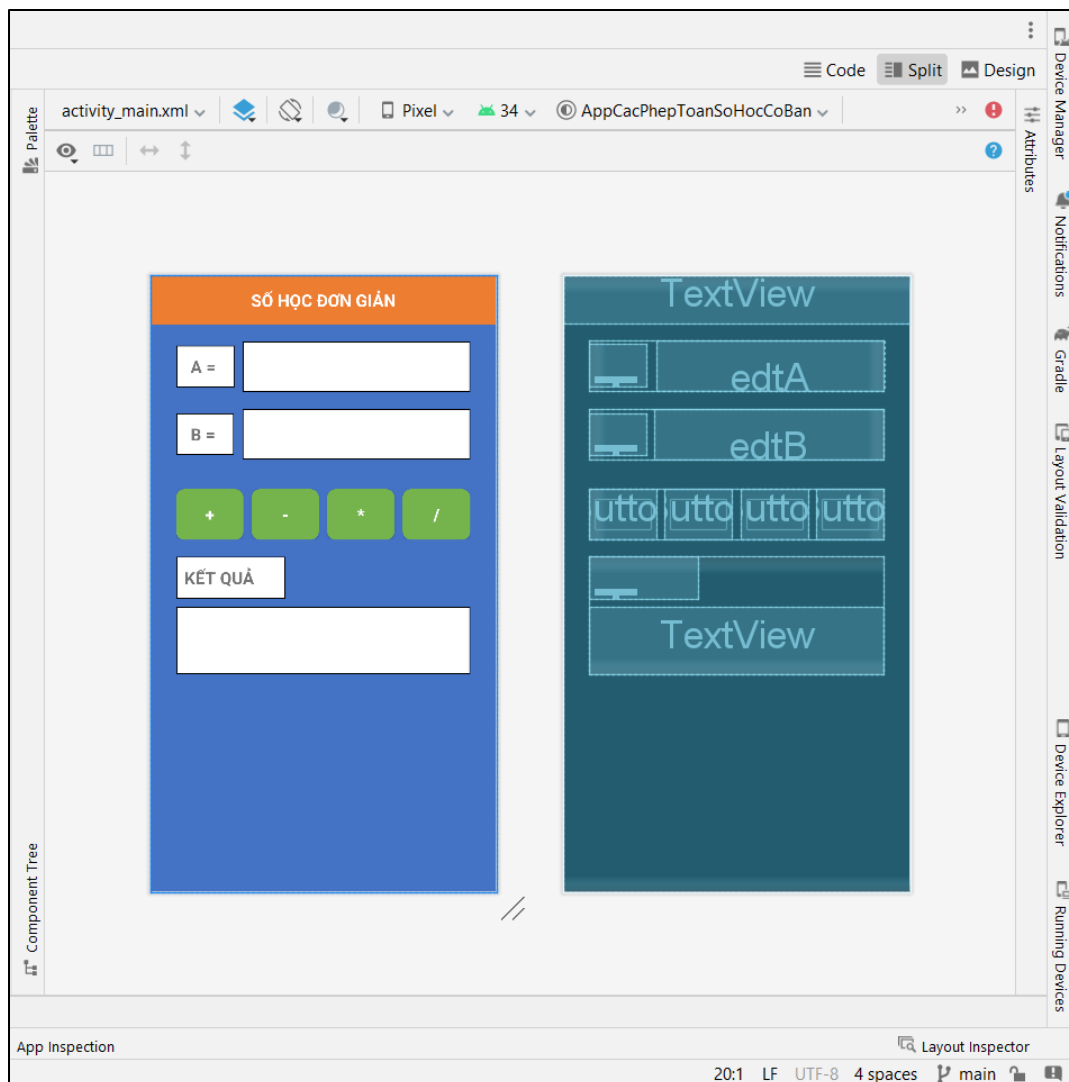
```
activity_main.xml x MainActivity.java x
55         android:layout_height="wrap_content"
56         android:orientation="horizontal"
57         android:layout_gravity="center"
58         android:layout_marginBottom="20dp">
59
60         <TextView
61             android:layout_width="wrap_content"
62             android:layout_height="50dp"
63             android:layout_marginEnd="10dp"
64             android:layout_weight="1"
65             android:gravity="center"
66             android:text="B = "
67             android:textSize="20sp"
68             android:background="@drawable/bordered_background"
69             android:textStyle="bold"/>
70
71         <EditText
72             android:id="@+id/edtB"
73             android:layout_width="wrap_content"
74             android:layout_height="60dp"
75             android:layout_weight="1"
76             android:ems="10"
77             android:inputType="number"
78             android:textSize="20sp"
79             android:background="@drawable/bordered_background"
80             android:paddingStart="10dp"
81             android:textStyle="bold"/>
82     </LinearLayout>
83
```

```
activity_main.xml x MainActivity.java x
82     </LinearLayout>
83
84     <LinearLayout
85         android:layout_width="350dp"
86         android:layout_height="wrap_content"
87         android:orientation="horizontal"
88         android:layout_gravity="center"
89         android:layout_marginTop="15dp"
90         android:layout_marginBottom="20dp">
91
92         <Button
93             android:id="@+id/btnAdd"
94             android:layout_width="65dp"
95             android:layout_height="60dp"
96             android:layout_marginEnd="5dp"
97             android:layout_weight="1"
98             android:text="+"
99             android:textSize="20sp"
100            android:background="@drawable/custom_button"
101            android:textColor="#FFFFFF"
102            android:textStyle="bold"
103            android:onClick="XuLy_Cong" />
104
105         <Button
106             android:id="@+id/btnSub"
107             android:layout_width="65dp"
108             android:layout_height="60dp"
109             android:layout_marginStart="5dp"
110             android:layout_marginEnd="5dp"
```

```
activity_main.xml x MainActivity.java x
110         android:layout_marginEnd="5dp"
111         android:layout_weight="1"
112         android:text="-"
113         android:textSize="20sp"
114         android:background="@drawable/custom_button"
115         android:textColor="#FFFFFF"
116         android:textStyle="bold"
117         android:onClick="XuLy_Tru"/>
118
119     <Button
120         android:id="@+id/btnMul"
121         android:layout_width="65dp"
122         android:layout_height="60dp"
123         android:layout_marginStart="5dp"
124         android:layout_marginEnd="5dp"
125         android:layout_weight="1"
126         android:text="*"
127         android:textSize="20sp"
128         android:background="@drawable/custom_button"
129         android:textColor="#FFFFFF"
130         android:textStyle="bold"
131         android:onClick="XuLy_Nhan"/>
132
133     <Button
134         android:id="@+id/btnDiv"
135         android:layout_width="65dp"
136         android:layout_height="60dp"
137         android:layout_marginStart="5dp"
138         android:layout_weight="1"
```

```
activity_main.xml x MainActivity.java x
138         android:layout_weight="1"
139         android:text="/"
140         android:textSize="20sp"
141         android:background="@drawable/custom_button"
142         android:textColor="#FFFFFF"
143         android:textStyle="bold"
144         android:onClick="XuLy_Chia"/>
145     </LinearLayout>
146
147     <LinearLayout
148         android:layout_width="350dp"
149         android:layout_height="wrap_content"
150         android:orientation="vertical"
151         android:layout_gravity="center">
152
153         <TextView
154             android:layout_width="130dp"
155             android:layout_height="50dp"
156             android:layout_weight="1"
157             android:gravity="center_vertical"
158             android:paddingStart="10dp"
159             android:layout_marginBottom="10dp"
160             android:text="KẾT QUẢ"
161             android:textSize="20sp"
162             android:background="@drawable/bordered_background"
163             android:textStyle="bold"/>
164
165         <TextView
166             android:id="@+id/tvResult"
```

```
165         <TextView
166             android:id="@+id/tvResult"
167             android:layout_width="match_parent"
168             android:layout_height="80dp"
169             android:layout_weight="1"
170             android:background="@drawable/bordered_background"
171             android:gravity="center"
172             android:textSize="20sp"
173             android:textStyle="bold" />
174     </LinearLayout>
175 </LinearLayout>
```



# MainActivity.java

```
1 package com.phamthehung.appcacpheptoansohocoban;
2
3 import ...
4
10
11 public class MainActivity extends AppCompatActivity {
12     EditText dk_soA, dk_soB;
13     TextView dk_KQ;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19         findControls();
20     }
21     void findControls() {
22         dk_soA = findViewById(R.id.edtA);
23         dk_soB = findViewById(R.id.edtB);
24         dk_KQ = findViewById(R.id.tvResult);
25     }
26     // Hàm xử lý sự kiện click lên nút "+"
27     public void XuLy_Cong(View v) {
28         // Lấy số thứ nhất
29         // Tìm điều khiển chứa dữ liệu số A
30         EditText dk_soA = findViewById(R.id.edtA);
31         // Lấy dữ liệu chứa trong điều khiển, chuyển sang kiểu số nguyên
32         int soA = Integer.parseInt(dk_soA.getText().toString());
```

```
33         // Lấy số thứ hai
34         EditText dk_soB = findViewById(R.id.edtB);
35         int soB = Integer.parseInt(dk_soB.getText().toString());
36         // Xử lý
37         int KetQua = soA + soB;
38         // Hiện kết quả
39         // Tìm điều khiển chứa kết quả
40         TextView dk_KQ = findViewById(R.id.tvResult);
41         // Quy định text cho điều khiển này là kết quả tính toán được
42         // Chú ý: Chuyển sang kiểu Chuỗi trước khi set
43         dk_KQ.setText(String.valueOf(KetQua));
44     }
45     // Hàm xử lý sự kiện click lên nút "-"
46     public void XuLy_Tru(View v) {
47         int soA = Integer.parseInt(dk_soA.getText().toString());
48         int soB = Integer.parseInt(dk_soB.getText().toString());
49         int KetQua = soA - soB;
50         dk_KQ.setText(String.valueOf(KetQua));
51     }
52     // Hàm xử lý sk click lên nút "*"
53     public void XuLy_Nhan(View v) {
54         int soA = Integer.parseInt(dk_soA.getText().toString());
55         int soB = Integer.parseInt(dk_soB.getText().toString());
56         int KetQua = soA * soB;
57         dk_KQ.setText(String.valueOf(KetQua));
58     }
59     // Hàm xử lý sk click lên nút "/"
60     public void XuLy_Chia(View v) {
```

```
MainActivity.java x
48     int soB = Integer.parseInt(dk_soB.getText().toString());
49     int KetQua = soA - soB;
50     dk_KQ.setText(String.valueOf(KetQua));
51 }
52 // Hàm xử lý sk click lên nút "*"
1 usage
53 public void XuLy_Nhan(View v) {
54     int soA = Integer.parseInt(dk_soA.getText().toString());
55     int soB = Integer.parseInt(dk_soB.getText().toString());
56     int KetQua = soA * soB;
57     dk_KQ.setText(String.valueOf(KetQua));
58 }
59 // Hàm xử lý sk click lên nút "/"
1 usage
60 public void XuLy_Chia(View v) {
61     int soA = Integer.parseInt(dk_soA.getText().toString());
62     int soB = Integer.parseInt(dk_soB.getText().toString());
63     if (soB == 0) {
64         Toast.makeText(context: this, text: "Không thể chia cho 0!", Toast.LENGTH_SHORT).show();
65         return;
66     }
67     else {
68         int KetQua = soA / soB;
69         dk_KQ.setText(String.valueOf(KetQua));
70     }
71 }
72 }
```