

DURHAM
COLLEGE

DCCONNECT

LAB 3

INFT 3101-01

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COPY OF THE CODE

```
package com.example.lab_3;

> import ...

/> public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable( $this$enableEdgeToEdge: this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.second_sc_view), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
            return insets;
        });
    }

    public void main_btn_click(View btn) { 1 usage

        EditText inputText = findViewById(R.id.userName);
        TextView warn= findViewById(R.id.warning);
        String input_txt = inputText.getText().toString();

        if (TextUtils.isEmpty(inputText.getText().toString())) {

            warn.setText("NAME CAN NOT BE EMPTY");
            warn.setVisibility(View.VISIBLE);
        } else {
            String textToSend = inputText.getText().toString();
            Intent secondScreen = new Intent( packageContext: MainActivity.this, second_page.class);
            secondScreen.putExtra( name: "sc1_name",inputText.getText().toString());
            warn.setVisibility(View.GONE);
            startActivity(secondScreen);
        }
    }
}
```

```

1  <?xml Version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout 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:id="@+id/second_sc_view"
6      android:layout_width="match_parent"
7      android:layout_height="match_parent"
8      android:background="@drawable/back"
9      tools:context=".MainActivity">
10
11      <TextView
12          android:id="@+id/textView3"
13          android:layout_width="wrap_content"
14          android:layout_height="wrap_content"
15          android:fontFamily="casual"
16          android:text="Welcome To Ez Learning"
17          android:textColor="#3F51B5"
18          android:textSize="34sp"
19          android:textStyle="bold"
20          app:layout_constraintBottom_toBottomOf="parent"
21          app:layout_constraintEnd_toEndOf="parent"
22          app:layout_constraintStart_toStartOf="parent"
23          app:layout_constraintTop_toTopOf="parent"
24          app:layout_constraintVertical_bias="0.126" />
25
26      <TextView
27          android:id="@+id/textView"
28          android:layout_width="197dp"
29          android:layout_height="33dp"
30          android:background="@android:color/transparent"
31          android:backgroundTint="#00FFFFFF"
32          android:text="Learning made easier"
33          android:textColor="#9400D3"
34          android:textSize="28sp"
35          android:textStyle="italic"
36          app:layout_constraintBottom_toBottomOf="parent"
37          app:layout_constraintEnd_toEndOf="parent"
38          app:layout_constraintHorizontal_bias="1.0"
39          app:layout_constraintStart_toStartOf="parent"
40          app:layout_constraintTop_toTopOf="parent"
41          app:layout_constraintVertical_bias="0.209" />

```

androidx.constraintlayout.widget.ConstraintLayout > TextView

```

41      app:layout_constraintVertical_bias="0.209" />
42
43      <View
44          android:id="@+id/divider"
45          android:layout_width="409dp"
46          android:layout_height="4dp"
47          android:background="#FC5214"
48          app:layout_constraintBottom_toBottomOf="parent"
49          app:layout_constraintEnd_toEndOf="parent"
50          app:layout_constraintStart_toStartOf="parent"
51          app:layout_constraintTop_toTopOf="parent"
52          app:layout_constraintVertical_bias="0.277" />
53
54      <ImageView
55          android:id="@+id/imageView"
56          android:layout_width="398dp"
57          android:layout_height="116dp"
58          android:src="@drawable/_957740_preview"
59          app:layout_constraintBottom_toBottomOf="parent"
60          app:layout_constraintEnd_toEndOf="parent"
61          app:layout_constraintHorizontal_bias="1.0"
62          app:layout_constraintStart_toStartOf="parent"
63          app:layout_constraintTop_toBottomOf="@+id/divider"
64          app:layout_constraintVertical_bias="1.0" />
65
66      <TextView
67          android:id="@+id/textView2"
68          android:layout_width="156dp"
69          android:layout_height="33dp"
70          android:text="Learner's Name:"
71          android:textAlignment="center"
72          android:textSize="20sp"
73          android:textStyle="bold"
74          app:layout_constraintBottom_toBottomOf="parent"
75          app:layout_constraintEnd_toEndOf="parent"
76          app:layout_constraintHorizontal_bias="0.07"
77          app:layout_constraintStart_toStartOf="parent"
78          app:layout_constraintTop_toTopOf="parent"
79          app:layout_constraintVertical_bias="0.446" />
80

```

```

81     <EditText
82         android:id="@+id/username"
83         android:layout_width="199dp"
84         android:layout_height="49dp"
85         android:ems="10"
86         android:hint="Name"
87         android:inputType="text"
88         android:textSize="20sp"
89         app:layout_constraintBottom_toBottomOf="parent"
90         app:layout_constraintEnd_toEndOf="parent"
91         app:layout_constraintHorizontal_bias="0.885"
92         app:layout_constraintStart_toStartOf="parent"
93         app:layout_constraintTop_toTopOf="parent"
94         app:layout_constraintVertical_bias="0.445" />
95
96     <Button
97         android:id="@+id/start_click"
98         android:layout_width="162dp"
99         android:layout_height="54dp"
100         android:background="#F5660B24"
101         android:gravity="center_horizontal|center_vertical"
102         android:onClick="main_btn_click"
103         android:stateListAnimator="@android:anim/slide_in_left"
104         android:text="Let's Roll"
105         android:textAlignment="center"
106         android:textColorLink="#230756"
107         android:textSize="24sp"
108         app:layout_constraintBottom_toBottomOf="parent"
109         app:layout_constraintEnd_toEndOf="parent"
110         app:layout_constraintHorizontal_bias="0.497"
111         app:layout_constraintStart_toStartOf="parent"
112         app:layout_constraintTop_toTopOf="parent"
113         app:layout_constraintVertical_bias="0.539" />
114
115     <TextView
116         android:id="@+id/warning"
117         android:layout_width="225dp"
118         android:layout_height="45dp"
119         android:text="NAME CANNOT BE EMPTY"

```

```

100         android:background="#F5660B24"
101         android:gravity="center_horizontal|center_vertical"
102         android:onClick="main_btn_click"
103         android:stateListAnimator="@android:anim/slide_in_left"
104         android:text="Let's Roll"
105         android:textAlignment="center"
106         android:textColorLink="#230756"
107         android:textSize="24sp"
108         app:layout_constraintBottom_toBottomOf="parent"
109         app:layout_constraintEnd_toEndOf="parent"
110         app:layout_constraintHorizontal_bias="0.497"
111         app:layout_constraintStart_toStartOf="parent"
112         app:layout_constraintTop_toTopOf="parent"
113         app:layout_constraintVertical_bias="0.539" />
114
115     <TextView
116         android:id="@+id/warning"
117         android:layout_width="225dp"
118         android:layout_height="45dp"
119         android:text="NAME CANNOT BE EMPTY"
120         android:textAlignment="center"
121         android:textColor="#F00808"
122         android:textSize="16sp"
123         android:textStyle="bold"
124         android:visibility="invisible"
125         app:layout_constraintBottom_toBottomOf="@+id/imageView"
126         app:layout_constraintEnd_toEndOf="parent"
127         app:layout_constraintStart_toStartOf="parent"
128         app:layout_constraintTop_toTopOf="parent"
129         app:layout_constraintVertical_bias="0.377" />
130
131 </androidx.constraintlayout.widget.ConstraintLayout>

```

Screen 2

```
1 package com.example.lab_3;
2
3 > import ...
19
20 ▶</> public class second_page extends AppCompatActivity {
21
22     @Override
23     protected void onCreate(Bundle savedInstanceState) {
24         super.onCreate(savedInstanceState);
25         EdgeToEdge.enable( $this$enableEdgeToEdge: this);
26         setContentView(R.layout.activity_second_page);
27         String u_name = getIntent().getStringExtra( (name: "sc1_name"));
28         TextView displayText = findViewById(R.id.p_name);
29         displayText.setText(u_name);
30         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.second_sc_view), (v, insets) -> {
31             Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
32             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
33             return insets;
34         });
35
36
37     }
38     public void check_quiz_ans(View btn2) { 1 usage
39         int points=0;
40         int rid=2131296782;
41         Spinner myspinner= findViewById(R.id.spinner);
42         CheckBox mycb1=findViewById(R.id.cb1);
43         CheckBox mycb2=findViewById(R.id.cb2);
44         CheckBox mycb3=findViewById(R.id.cb3);
45         CheckBox mycb4=findViewById(R.id.cb4);
46         RadioGroup myrbg=findViewById(R.id.rbg);
47         Switch myans=findViewById(R.id.ans);
48
49         String selectedSpin = myspinner.getSelectedItem().toString();
50         boolean isChecked1 = mycb1.isChecked();
51         boolean isChecked2 = mycb2.isChecked();
52         boolean isChecked3 = mycb3.isChecked();
53         boolean isChecked4 = mycb4.isChecked();
54
55         boolean sw_val = myans.isChecked();
56         if(selectedSpin.equals("Justin Trudeau")){
57             points++;
```

```

20     public class second_page extends AppCompatActivity {
38         public void check_quiz_ans(View btn2) { 1 usage
51             boolean isChecked2 = mycb2.isChecked();
52             boolean isChecked3 = mycb3.isChecked();
53             boolean isChecked4 = mycb4.isChecked();
54
55             boolean sw_val = myans.isChecked();
56             if(selectedSpin.equals("Justin Trudeau")){
57                 points++;
58             }
59             if(isChecked1 && isChecked3){
60                 if(!(isChecked2 || isChecked4)){
61                     points++;
62                 }
63             }
64             if(rid==myrnb.getCheckedRadioButtonId()){
65                 points++;
66             }
67
68             String ans_="ANS 1: Justin Trudeau \nANS 2: Ontario, Alberta\nANS 3: 10";
69             System.out.println(points);
70             Intent thirdScreen = new Intent( packageContext second_page.this, answer_page.class);
71             if(myans.isChecked()){
72                 thirdScreen.putExtra( name: "answers",ans_);
73             }
74             thirdScreen.putExtra( name: "result",points);
75
76             startActivity(thirdScreen);
77         }
78     }
79
80     public void quit_pgn(){ no usages
81         finishAffinity(); // Closes all activities and exits the app
82         System.exit( status: 0);
83     }
84 }
85 }

```

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout 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:id="@+id/second_sc_view"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     android:background="@drawable/back"
9     tools:context=".second_page">
10
11     <View
12         android:id="@+id/divider2"
13         android:layout_width="409dp"
14         android:layout_height="4dp"
15         android:background="@color/design_default_color_error"
16         android:backgroundTint="@color/design_default_color_error"
17         app:layout_constraintBottom_toBottomOf="parent"
18         app:layout_constraintEnd_toEndOf="parent"
19         app:layout_constraintStart_toStartOf="parent"
20         app:layout_constraintTop_toTopOf="parent"
21         app:layout_constraintVertical_bias="0.084" />
22
23     <TextView
24         android:id="@+id/textView4"
25         android:layout_width="99dp"
26         android:layout_height="35dp"
27         android:text="Hello,"
28         android:textAlignment="center"
29         android:textColor="#92412749"
30         android:textSize="20sp"
31         app:layout_constraintBottom_toBottomOf="parent"
32         app:layout_constraintEnd_toEndOf="parent"
33         app:layout_constraintHorizontal_bias="0.046"
34         app:layout_constraintStart_toStartOf="parent"
35         app:layout_constraintTop_toTopOf="parent"
36         app:layout_constraintVertical_bias="0.022" />
37
38     <TextView
39         android:id="@+id/p_name"
40         android:layout_width="228dp"
41         android:layout_height="33dp"

```

```

40         android:layout_width="228dp"
41         android:layout_height="33dp"
42         android:layout_marginStart="4dp"
43         android:textColor="#92412749"
44         android:textSize="20sp"
45         app:layout_constraintBottom_toBottomOf="parent"
46         app:layout_constraintStart_toEndOf="@+id/textView4"
47         app:layout_constraintTop_toTopOf="parent"
48         app:layout_constraintVertical_bias="0.022" />
49
50     <TextView
51         android:id="@+id/textView6"
52         android:layout_width="wrap_content"
53         android:layout_height="wrap_content"
54         android:text="QUIZ TIME!!"
55         android:textSize="34sp"
56         app:layout_constraintBottom_toBottomOf="parent"
57         app:layout_constraintEnd_toEndOf="parent"
58         app:layout_constraintStart_toStartOf="parent"
59         app:layout_constraintTop_toTopOf="parent"
60         app:layout_constraintVertical_bias="0.115" />
61
62     <TextView
63         android:id="@+id/textView7"
64         android:layout_width="wrap_content"
65         android:layout_height="wrap_content"
66         android:text="Q1. who is the prime minister of canada?"
67         android:textAlignment="center"
68         android:textSize="16sp"
69         android:textStyle="bold"
70         app:layout_constraintBottom_toBottomOf="parent"
71         app:layout_constraintEnd_toEndOf="parent"
72         app:layout_constraintHorizontal_bias="0.288"
73         app:layout_constraintStart_toStartOf="parent"
74         app:layout_constraintTop_toTopOf="parent"
75         app:layout_constraintVertical_bias="0.197" />
76
77     <Spinner

```



```

75         app:layout_constraintVertical_bias="0.197" />
76
77     <Spinner
78         android:id="@+id/spinner"
79         android:layout_width="207dp"
80         android:layout_height="28dp"
81         android:entries="@array/spinner_items"
82         app:layout_constraintBottom_toBottomOf="parent"
83         app:layout_constraintEnd_toEndOf="parent"
84         app:layout_constraintHorizontal_bias="0.166"
85         app:layout_constraintStart_toStartOf="parent"
86         app:layout_constraintTop_toTopOf="parent"
87         app:layout_constraintVertical_bias="0.248" />
88
89     <TextView
90         android:id="@+id/textView8"
91         android:layout_width="wrap_content"
92         android:layout_height="wrap_content"
93         android:text="Q2. Which of the following are in Canada? "
94         android:textSize="16sp"
95         android:textStyle="bold"
96         app:layout_constraintBottom_toBottomOf="parent"
97         app:layout_constraintEnd_toEndOf="parent"
98         app:layout_constraintHorizontal_bias="0.314"
99         app:layout_constraintStart_toStartOf="parent"
100        app:layout_constraintTop_toTopOf="parent"
101        app:layout_constraintVertical_bias="0.317" />
102
103    <CheckBox
104        android:id="@+id/cb1"
105        android:layout_width="109dp"
106        android:layout_height="43dp"
107        android:text="Ontario"
108        app:layout_constraintBottom_toBottomOf="parent"
109        app:layout_constraintEnd_toEndOf="parent"
110        app:layout_constraintHorizontal_bias="0.112"
111        app:layout_constraintStart_toStartOf="parent"
112        app:layout_constraintTop_toTopOf="parent"
113        app:layout_constraintVertical_bias="0.37" />

```

```

113        app:layout_constraintVertical_bias="0.37" />
114
115    <CheckBox
116        android:id="@+id/cb2"
117        android:layout_width="108dp"
118        android:layout_height="44dp"
119        android:text="New York"
120        app:layout_constraintBottom_toBottomOf="parent"
121        app:layout_constraintEnd_toEndOf="parent"
122        app:layout_constraintHorizontal_bias="0.57"
123        app:layout_constraintStart_toStartOf="parent"
124        app:layout_constraintTop_toTopOf="parent"
125        app:layout_constraintVertical_bias="0.369" />
126
127    <CheckBox
128        android:id="@+id/cb3"
129        android:layout_width="wrap_content"
130        android:layout_height="wrap_content"
131        android:text="Alberta"
132        app:layout_constraintBottom_toBottomOf="parent"
133        app:layout_constraintEnd_toEndOf="parent"
134        app:layout_constraintHorizontal_bias="0.102"
135        app:layout_constraintStart_toStartOf="parent"
136        app:layout_constraintTop_toTopOf="parent"
137        app:layout_constraintVertical_bias="0.455" />
138
139    <CheckBox
140        android:id="@+id/cb4"
141        android:layout_width="wrap_content"
142        android:layout_height="wrap_content"
143        android:text="Bathinda"
144        app:layout_constraintBottom_toBottomOf="parent"
145        app:layout_constraintEnd_toEndOf="parent"
146        app:layout_constraintHorizontal_bias="0.549"
147        app:layout_constraintStart_toStartOf="parent"
148        app:layout_constraintTop_toTopOf="parent"
149        app:layout_constraintVertical_bias="0.455" />
150
151    <TextView
152        android:id="@+id/textView9"

```

```

151     <TextView
152         android:id="@+id/textView9"
153         android:layout_width="wrap_content"
154         android:layout_height="wrap_content"
155         android:text="Q3. How many provinces are there in Canada?"
156         android:textSize="16sp"
157         android:textStyle="bold"
158         app:layout_constraintBottom_toBottomOf="parent"
159         app:layout_constraintEnd_toEndOf="parent"
160         app:layout_constraintHorizontal_bias="0.414"
161         app:layout_constraintStart_toStartOf="parent"
162         app:layout_constraintTop_toTopOf="parent"
163         app:layout_constraintVertical_bias="0.535" />
164
165     <RadioGroup
166         android:id="@+id/rbg"
167         android:layout_width="269dp"
168         android:layout_height="148dp"
169         android:orientation="vertical"
170         app:layout_constraintBottom_toBottomOf="parent"
171         app:layout_constraintEnd_toEndOf="parent"
172         app:layout_constraintHorizontal_bias="0.239"
173         app:layout_constraintStart_toStartOf="parent"
174         app:layout_constraintTop_toTopOf="parent"
175         app:layout_constraintVertical_bias="0.703">
176
177         <RadioButton
178             android:id="@+id/rb1"
179             android:layout_width="70dp"
180             android:layout_height="wrap_content"
181             android:text="10" />
182
183         <RadioButton
184             android:id="@+id/radioButton2"
185             android:layout_width="127dp"
186             android:layout_height="wrap_content"
187             android:text="15" />
188
189         <RadioButton
190             android:id="@+id/radioButton3"
191             android:layout_width="match_parent"
192             android:layout_height="wrap_content"
193             android:text="20" />
194     </RadioGroup>
195
196     <TextView
197         android:id="@+id/textView10"
198         android:layout_width="wrap_content"
199         android:layout_height="wrap_content"
200         android:text="Show Answers:"
201         android:textSize="16sp"
202         android:textStyle="bold"
203         app:layout_constraintBottom_toBottomOf="parent"
204         app:layout_constraintEnd_toEndOf="parent"
205         app:layout_constraintHorizontal_bias="0.053"
206         app:layout_constraintStart_toStartOf="parent"
207         app:layout_constraintTop_toTopOf="parent"
208         app:layout_constraintVertical_bias="0.882" />
209
210     <Switch
211         android:id="@+id/ans"
212         android:layout_width="wrap_content"
213         android:layout_height="wrap_content"
214         android:text="ON/OFF"
215         app:layout_constraintBottom_toBottomOf="parent"
216         app:layout_constraintEnd_toEndOf="parent"
217         app:layout_constraintHorizontal_bias="0.453"
218         app:layout_constraintStart_toStartOf="parent"
219         app:layout_constraintTop_toTopOf="parent"
220         app:layout_constraintVertical_bias="0.882" />
221
222     <Button
223         android:id="@+id/check_quiz"
224         android:layout_width="wrap_content"

```

```

222     <Button
223         android:id="@+id/check_quiz"
224         android:layout_width="wrap_content"
225         android:layout_height="wrap_content"
226         android:onClick="check_quiz_ans"
227         android:text="Submit"
228         app:layout_constraintBottom_toBottomOf="parent"
229         app:layout_constraintEnd_toEndOf="parent"
230         app:layout_constraintHorizontal_bias="0.465"
231         app:layout_constraintStart_toStartOf="parent"
232         app:layout_constraintTop_toTopOf="parent"
233         app:layout_constraintVertical_bias="0.963" />
234
235     <Button
236         android:id="@+id/quit_btn"
237         android:layout_width="wrap_content"
238         android:layout_height="wrap_content"
239         android:onClick="quit_pgm"
240         android:text="Quit"
241         app:layout_constraintBottom_toBottomOf="parent"
242         app:layout_constraintEnd_toEndOf="parent"
243         app:layout_constraintHorizontal_bias="0.996"
244         app:layout_constraintStart_toStartOf="parent"
245         app:layout_constraintTop_toTopOf="parent"
246         app:layout_constraintVertical_bias="0.002" />
247
248 </androidx.constraintlayout.widget.ConstraintLayout>

```

Screen 3

```

1 package com.example.lab_3;
2
3 > import ...
4
5 public class answer_page extends AppCompatActivity {
6
7     @Override
8     protected void onCreate(Bundle savedInstanceState) {
9         super.onCreate(savedInstanceState);
10         EdgeToEdge.enable(this);
11         setContentView(R.layout.activity_answer_page);
12         Intent intent2=getIntent();
13         int result = getIntent().getStringExtra( name: "result", defaultValue: 0);
14         if(intent2.hasExtra( name: "answers")){
15             TextView a_head_l=findViewById(R.id.a_head);
16             a_head_l.setVisibility(View.VISIBLE);
17             String answers = getIntent().getStringExtra( name: "answers");
18             TextView ans_l=findViewById(R.id.a_head);
19             String a_display=ans_l.getText()+answers;
20             ans_l.setText(a_display);
21         }
22         TextView rs=findViewById(R.id.num_res);
23         rs.setText(String.valueOf(result));
24         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
25             Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
26             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
27             return insets;
28         });
29     }
30
31     public void quit_pgm(){ 1 usage
32         finishAffinity(); // Closes all activities and exits the app
33         System.exit( status: 0);
34     }
35 }

```

```

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout 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:id="@+id/main"
6     android:layout_width="match_parent"
7     android:layout_height="match_parent"
8     android:background="@drawable/back"
9     tools:context=".answer_page">
10
11     <View
12         android:id="@+id/divider3"
13         android:layout_width="409dp"
14         android:layout_height="4dp"
15         android:background="@color/design_default_color_error"
16         android:backgroundTint="@color/design_default_color_error"
17         app:layout_constraintBottom_toBottomOf="parent"
18         app:layout_constraintEnd_toEndOf="parent"
19         app:layout_constraintStart_toStartOf="parent"
20         app:layout_constraintTop_toTopOf="parent"
21         app:layout_constraintVertical_bias="0.084" />
22
23     <TextView
24         android:id="@+id/textView5"
25         android:layout_width="wrap_content"
26         android:layout_height="wrap_content"
27         android:text="RESULT"
28         android:textSize="120sp"
29         app:layout_constraintBottom_toBottomOf="parent"
30         app:layout_constraintEnd_toEndOf="parent"
31         app:layout_constraintStart_toStartOf="parent"
32         app:layout_constraintTop_toTopOf="parent"
33         app:layout_constraintVertical_bias="0.022" />
34
35     <TextView
36         android:id="@+id/textView11"
37         android:layout_width="wrap_content"
38         android:layout_height="wrap_content"
39         android:text="YOU GOT "
40         app:layout_constraintBottom_toBottomOf="parent"
41         app:layout_constraintEnd_toEndOf="parent"

```

```

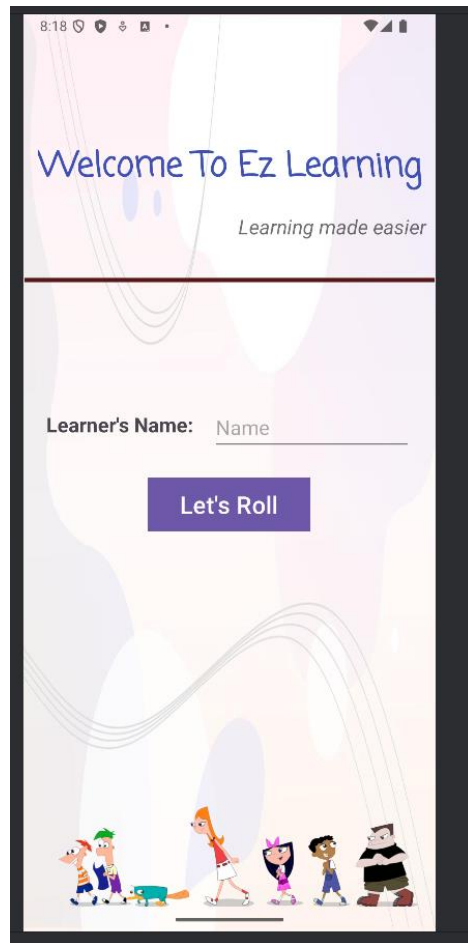
42         app:layout_constraintHorizontal_bias="0.174"
43         app:layout_constraintStart_toStartOf="parent"
44         app:layout_constraintTop_toTopOf="parent" />
45
46     <TextView
47         android:id="@+id/num_res"
48         android:layout_width="wrap_content"
49         android:layout_height="wrap_content"
50         app:layout_constraintBottom_toBottomOf="parent"
51         app:layout_constraintEnd_toEndOf="parent"
52         app:layout_constraintHorizontal_bias="0.062"
53         app:layout_constraintStart_toEndOf="@+id/textView11"
54         app:layout_constraintTop_toTopOf="parent" />
55
56     <TextView
57         android:id="@+id/textView13"
58         android:layout_width="wrap_content"
59         android:layout_height="wrap_content"
60         android:text="/3 CORRECT ANSWERS"
61         app:layout_constraintBottom_toBottomOf="parent"
62         app:layout_constraintEnd_toEndOf="parent"
63         app:layout_constraintHorizontal_bias="0.089"
64         app:layout_constraintStart_toEndOf="@+id/num_res"
65         app:layout_constraintTop_toTopOf="parent" />
66
67     <Button
68         android:id="@+id/quit_btn2"
69         android:layout_width="wrap_content"
70         android:layout_height="wrap_content"
71         android:onClick="quit_pgn"
72         android:text="QUIT"
73         app:layout_constraintBottom_toBottomOf="parent"
74         app:layout_constraintEnd_toEndOf="parent"
75         app:layout_constraintHorizontal_bias="0.47"
76         app:layout_constraintStart_toStartOf="parent"
77         app:layout_constraintTop_toTopOf="parent"
78         app:layout_constraintVertical_bias="0.598" />
79
80     <TextView

```

```
80     <TextView
81         android:id="@+id/a_head"
82         android:layout_width="wrap_content"
83         android:layout_height="wrap_content"
84         android:text="Answers"
85         android:textSize="24sp"
86         android:visibility="invisible"
87         app:layout_constraintBottom_toBottomOf="parent"
88         app:layout_constraintEnd_toEndOf="parent"
89         app:layout_constraintHorizontal_bias="0.442"
90         app:layout_constraintStart_toStartOf="parent"
91         app:layout_constraintTop_toTopOf="parent"
92         app:layout_constraintVertical_bias="0.107" />
93
94     <TextView
95         android:id="@+id/ans_label"
96         android:layout_width="wrap_content"
97         android:layout_height="wrap_content"
98         android:textSize="20sp"
99         app:layout_constraintBottom_toBottomOf="parent"
100        app:layout_constraintEnd_toEndOf="parent"
101        app:layout_constraintHorizontal_bias="0.065"
102        app:layout_constraintStart_toStartOf="parent"
103        app:layout_constraintTop_toTopOf="parent"
104        app:layout_constraintVertical_bias="0.196" />
105 </androidx.constraintlayout.widget.ConstraintLayout>
```

SCREENSHOTS OF SCREENS

Screen 1



Screen 2

8:19 [status icons]

Hello, adsd [Quit]

QUIZ TIME!!

Q1. who is the prime minister of canada?

Justin Trudeau ▼

Q2. Which of the following are in Canada?

☐ Ontario ☐ New York

☐ Alberta ☐ Bathinda

Q3. How many provinces are there in Canada?

☐ 10

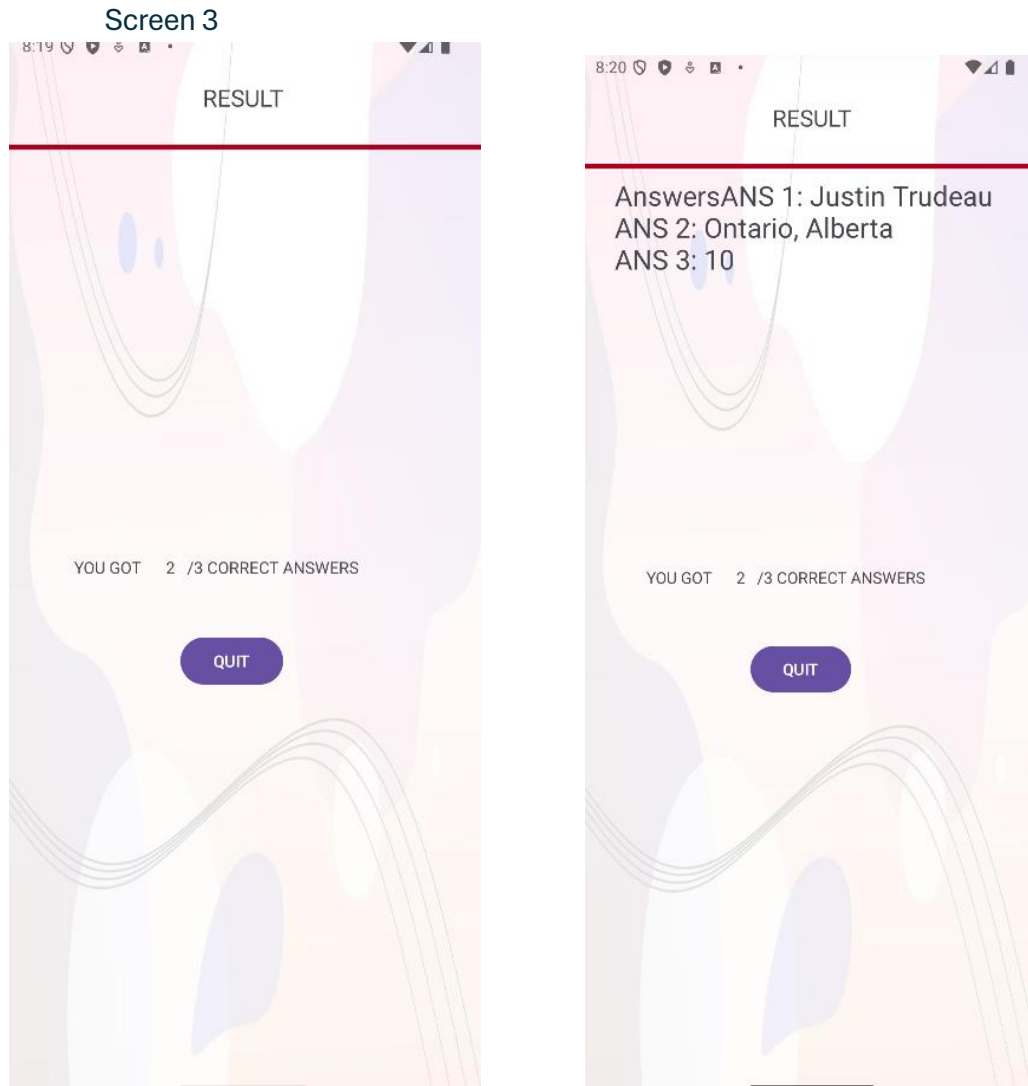
☐ 15

☐ 20

Show Answers: ON/OFF [toggle]

[Submit]

The image shows a mobile application interface for a quiz. At the top, there's a status bar with the time 8:19 and various icons. Below that, a header area contains the text 'Hello, adsd' and a purple 'Quit' button. A red horizontal line separates the header from the main content. The main content area has a light purple and pink background with abstract wavy lines. It features three quiz questions. Question 1 asks for the prime minister of Canada, with 'Justin Trudeau' selected in a dropdown menu. Question 2 asks which locations are in Canada, with checkboxes for Ontario, New York, Alberta, and Bathinda. Question 3 asks for the number of provinces in Canada, with radio buttons for 10, 15, and 20. At the bottom, there is a 'Show Answers' section with a toggle switch set to 'ON/OFF' and a purple 'Submit' button.



REFLECTION

This lab helped me reach new heights in terms of hands-on with Android Studio as several components were used in building the final application. Initially, we were just making designs through drag and drop which was later followed by logical Java code. The logic-building mechanism was the most fun part of this Lab. We had to make it multi screen which means there should be more than one interactive screen. Making them was easy, the only part which gave me a little hard time was figuring out how to connect them. The issue was resolved via some online readings and the app finally worked. To conclude, the lab was full of new experiences which were necessary in this ongoing journey of mine in Mobile Development.