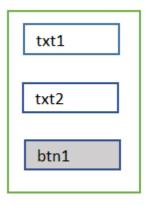
INSTRUCTIONS; ALL QUESTIONS ARE COMPULSORY

QUESTIONS

- a) Explain the security features that you can include in a mobile application. (2 marks)
- b) A student at KCA University has created the below interface in Android Studio. The interface is made up of two text views and one button whose ids are **txt1**, **txt2** and **btn1** respectively as shown on the below interface.



c) Generate an xml code that will be used to create the views for this interface using the Linear Layout, vertical orientation. (6 marks)

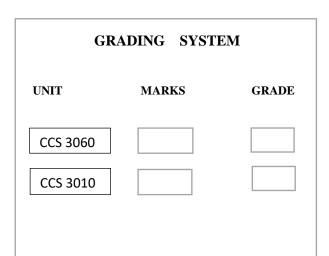
d) Eliminate the errors in the following XML code

(4 marks)

<?xml version="1.0" encoding="utf-8"?>
<resources</pre>

<color name="opaque_red">#f00
<string name="hello">Hello!</string>

- e) Write an Android app that has two buttons. The first button when clicked takes you to another activity with a text view, while the second takes you to www.cuk.ac.ke. In your solution include the activity, layout and string.xml files. (8 marks)
- f) A student at KCA University studying mobile programming has decided to develop an Android application for grading. The application has the interface shown below;



CCS 4070	
CCS 3080	
CCS 4060	
MEAN SCORE	

- i) **Declare** and **bind** each of the views/widgets used for entering marks, showing the grades and showing the mean score. (*Assume your own ids*). The views for entering marks are *EditTexts*, the views for displaying grades are TextViews and the view for displaying mean score is TextView. (**4marks**)
- ii) Write a method called **Grading** (using the; if statement) that can be used to grade the subjects on the interface. The method must have one parameter namely *marks*. Use the grading system shown below. (6marks)

Mark	Grade
40-49	D
50-59	С
60-69	В
70-100	A
0-39	F