

# AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

Department of Computer Science and Engineering

Program: Bachelor of Science in Computer Science and Engineering

Spring 2019 Year: 2<sup>nd</sup> Semester: 2<sup>nd</sup>

Course No: CSE 2200

Course Title: Software Development III

Assignment No: 02

Questions:

1. Write necessary codes for the following:

You have to work with one activity. There will be a question and three options of answer to that. You have to use checkbox. There must be only one correct answer to that question. If someone chooses the correct answer, you have to display in a textview “Correct answer”. If someone chooses a wrong answer, you have to show “Wrong answer”. If a user chooses more than one option or, does not choose any option, you have to tell them that they can only choose one option and they have to choose any option as selecting none is not acceptable using another textview.

A scenario is given below:

Suppose the question is “Who is the most honorable person in Seven kingdoms?” The options to that question are Ned Stark, Jon Arryn and Jaehaerys I Targaryen.

Who is the most honorable person in Seven kingdoms?

☐ Ned Stark

☐ Jon Arryn

☐ Jaehaerys I Targaryen

CLICK

If the user selects Ned Stark and presses CLICK button, “Correct answer” will be shown in the TextView that is in the below. But, for any other options, “Wrong answer” will be displayed.

Who is the most honorable person in Seven kingdoms?

☒ Ned Stark

☐ Jon Arryn

☐ Jaehaerys I Targaryen

CLICK

Correct answer

Who is the most honorable person in Seven kingdoms?

☐ Ned Stark

☒ Jon Arryn

☐ Jaehaerys I Targaryen

CLICK

Wrong answer

Who is the most honorable person in Seven kingdoms?

☐ Ned Stark

☐ Jon Arryn

☒ Jaehaerys I Targaryen

CLICK

Wrong answer

Selecting more than one option or none of the options is not acceptable.

The image displays five screenshots of an Android application interface, arranged in two rows. Each screenshot shows a question: "Who is the most honorable person in Seven kingdoms?". Below the question are three options: Ned Stark, Jon Arryn, and Jaehaerys I Targaryen. Each option is preceded by a checkbox. At the bottom of each screen is a yellow button labeled "CLICK" and a green bar.

- Top Left:** Ned Stark is selected (checked checkbox). The text below the options reads: "You can select only one option".
- Top Middle:** Ned Stark and Jon Arryn are selected (checked checkboxes). The text below the options reads: "You can select only one option".
- Top Right:** Jon Arryn and Jaehaerys I Targaryen are selected (checked checkboxes). The text below the options reads: "You can select only one option".
- Bottom Left:** Ned Stark, Jon Arryn, and Jaehaerys I Targaryen are all selected (checked checkboxes). The text below the options reads: "You can select only one option".
- Bottom Right:** None of the options are selected (unchecked checkboxes). The text below the options reads: "You have to select any option".

2. Describe architecture of Android.
3. What is activity?
4. In how many ways click events of Button can be handled? Discuss them with examples.
5. Describe activity life cycle of Android.
6. Explain android framework.
7. Discuss the differences of Linear Layout and Relative layout and highlight their advantages and disadvantages with examples.
8. Explain the importance of AndroidManifest.xml file.
9. What is Android SDK?
10. Discuss nesting of layouts with examples.