Assignment 1

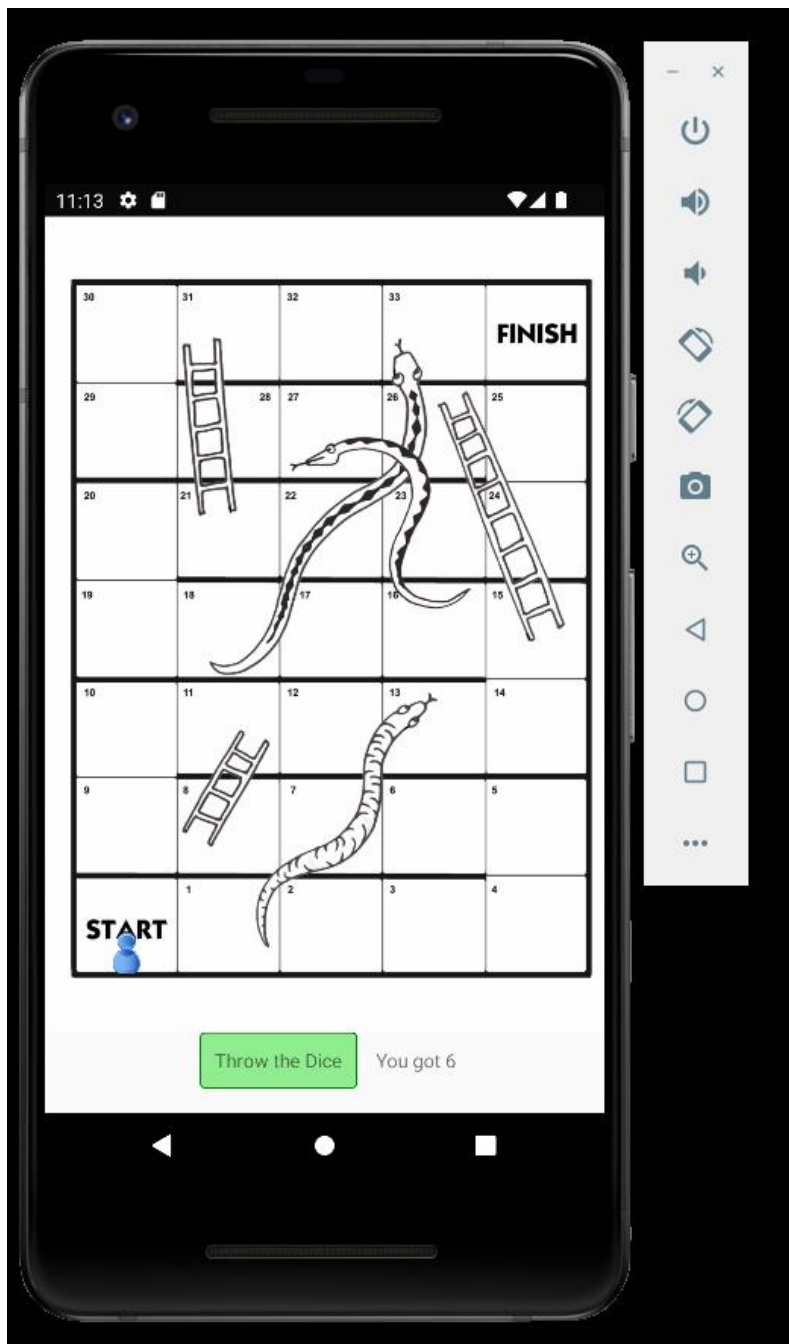Mobile Application Development.

Due date: 19 Oct 2023

Maximum allowed students per group: 4 (can be less)

You need to show assignment on Cell phone or emulator

Two groups having the same logic/assignment will get zero.

You will also submit the printed version of assignment.

You need to develop a snakes and ladders game, as shown below:

NOTE:

The snakes & ladders board can be downloaded from:

http://hancockmcdonald.com/sites/hancockmcdonald.com/files/file-downloads/SnakesLaddersBoard.jpg

The player image can be downloaded from:

http://clipart-library.com/images/kT85jnpXc.png

(NOTE: You may change background board or player images).

The player will promote or demote based on arrival on ladder or snake head respectively. Implement complete logic. The game should end when a player crosses last digit.

Here is the basic skeleton code to design the board.

Try to make the game responsive for different screens.

```
import React from 'react';
import { View, Text, Image, ImageBackground, StyleSheet, TouchableOpacity,
TouchableHighlight, Pressable, Button } from 'react-native';

const App = () => {
  return (

<>

    <ImageBackground source={require("./images/SnakesLaddersBoard.jpg")}
    style={{height: 600,}} >


<Image source={require("./images/player.png")}
    style={[styles.playerImage, { left: 50, top: 527}]} >

    </Image>
    </ImageBackground>

    <View style={{flexDirection: 'row', justifyContent: 'center', alignItems:
'center'}} >
    <TouchableOpacity
    title="Click to throw dice"
    style={styles.button}

    >
      <Text>Throw the Dice</Text>
    </TouchableOpacity>
    <Text>    You got {6}</Text>
```

```
    </View>
    </>

  );
}

const styles = StyleSheet.create(
  {
    button: {

        padding: 10,
        borderRadius: 4,
        borderWidth: 1,
        borderColor: 'green',
        backgroundColor: 'lightgreen',
        marginLeft: 5,


    },

    playerImage: {
      width: 20,
      height: 30,
      position:
      'absolute',
    }
  }
)
export default App;
```

Lab Assignment 1:

Use the react native's "useWindowDimensions" api to write the code of this assignment.

You need to create a mobile phone portrait layout:

Email

30 chars max

Name

50 chars max

Gender

◯ Male   ◯ Female

Country

[▽]

Subjects

☐ Phy ☐ Chem ☐ Bio

Skills

C++
Java
Javascript
C#

Address

Submit

When the same app is opened in a tablet layout (landscape), it should display like this.

Email	30 chars max	Name	50 chars max
Gender	◯ Male ◯ Female	Country	▽
Subjects	☐ Phy ☐ Chem ☐ Bio	Address	
Skills	C++ Java Javascript		Submit