**ASSIGNMENT# 1**

**SOFTWARE CONSTRUCTION**

**“ANDROID APPLICATION”**

**DOCUMENTATION**

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**INTRODUCTION:**

The objective of this assignment was to develop an Android Game Application. The game was “Snakes & Ladders”. The game consists of the classic rules of “Snakes & Ladders” i.e. both player and computer gets a turn after another. If any of them rolls a dice with a value of 6 they get throw the dice again. Similarly, if the players climb up on a ladder, the respective player gets to throw the dice again. Also, if a player get eaten by snake, his respective position changes to the tail of the snake and he can’t make a move until he rolls a 6 again. If a player rolls a 6 as well as climb up a ladder, he gets only one turn. The player who reaches the 100 point first wins the game. The game also includes difficulty levels from 1 to 5 where in level 5, computer wins almost 80% of the games.

**NOVELTY OF APPROACH:**

In order to develop this application, I created three different activities:

1. Main Activity
2. Settings Activity
3. Gameplay Activity

The main activity consists of the main menu from where you can navigate to gameplay activity and settings activity

The settings activity consists of a slider bar that can be used to set different levels of difficulty

The gameplay activity consists of the main game with the board and the dice.

The outcome of this application development was that I learned about android application & JAVA development.

**HOW TO RUN:**

Install the APK file in your android phone and run it.

Use the main menu to go either to gameplay screen or to the settings menu.

If you tap settings icon, you will be directed to settings menu where you can select level of difficulty on which you wish to play the game.

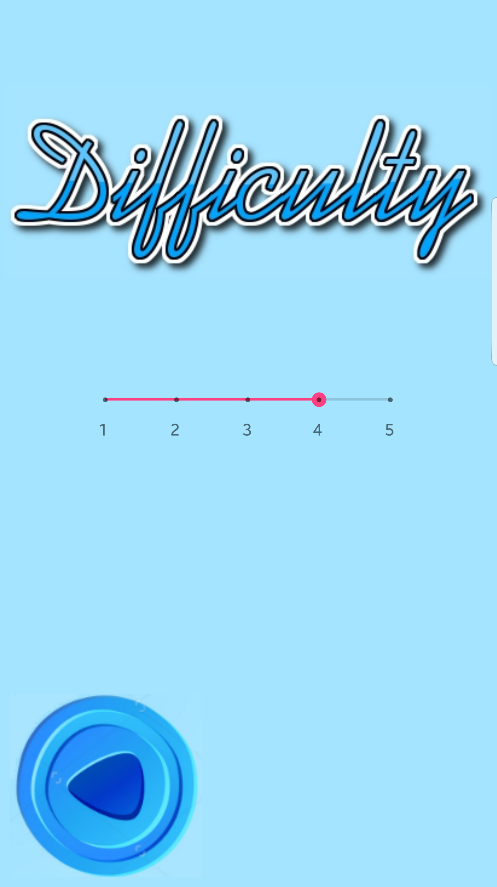
If you tap play button in home screen, you go the gameplay screen, where you have a roll dice button, and game board. Tap the roll dice button to roll the die and wait for the computer to take his turn. Again, you get to throw the dice after computer. By following the rules mentioned above, you need to reach 100 in order win the game and defeat the evil AI.

**SCREENSHOTS:**

**MAIN MENU:**



**SETTINGS MENU:**

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**GAMEPLAY:**

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