

ADVANCED SNAKE INSTALLATION GUIDE

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I. Introduction

a. What is “Advanced Snake”

Advanced Snake is inspired by the original classic snake game, which was and still have been a popular game. In this version, players can save their high scores and compare with other players or just have a good time playing the old school game. The highest achieved scores are collected and sorted in a list as Top 5. With the support of xampp a storage in a database is also possible. In connection with this, a Global Top 5 is displayed with the highest scores from the database. It is also recommended to turn on the sound of the computer. The player can then listen to our self-composed music.

b. Our team:

Here are our information, please feel free to contact us if you have any problems:

1. Minh Quang Tran (matriculation number 1321267)
Email: 14551@student.vgu.edu.vn
2. Maciej Suchowski (matriculation number 1234192)
Email: suchowsk@stud.fra-uas.de

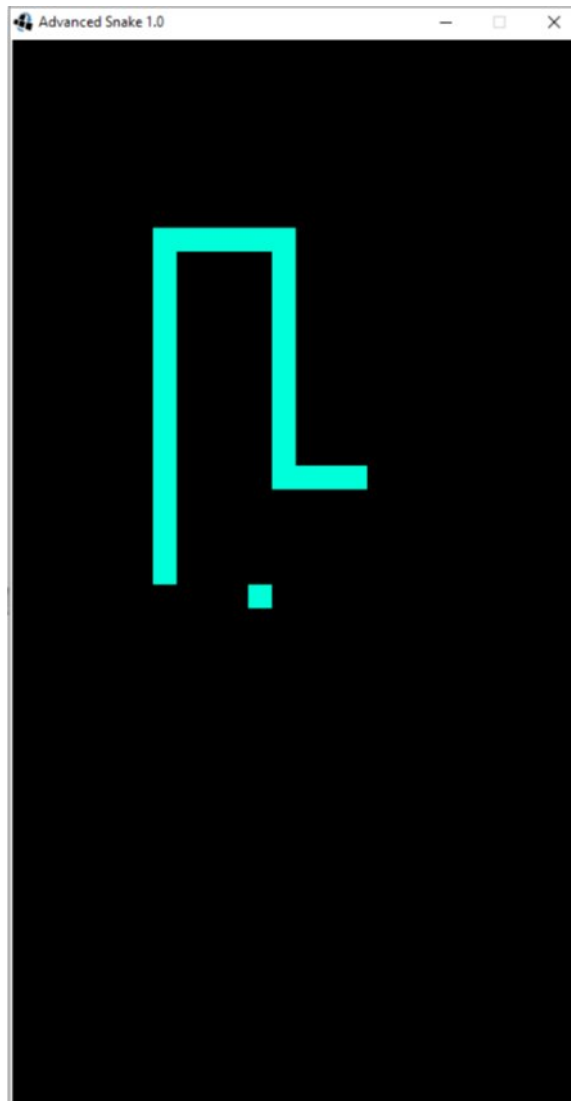
c. App Demo:

- The Title Screen



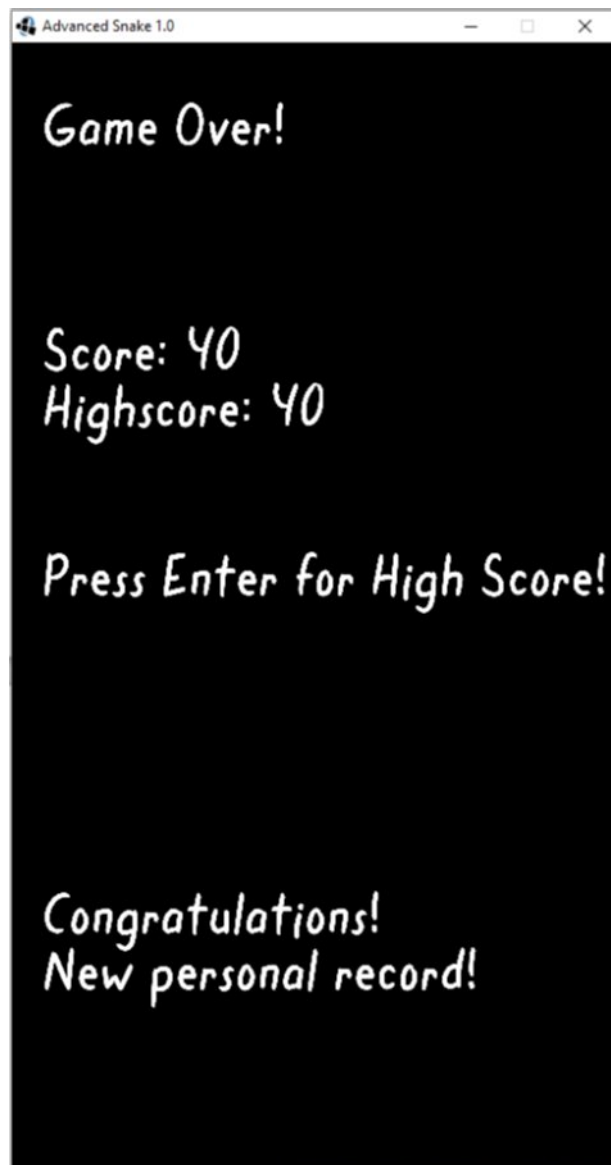
A simple cover image representation. Pressing Enter takes you directly to the game.

- The Game Screen



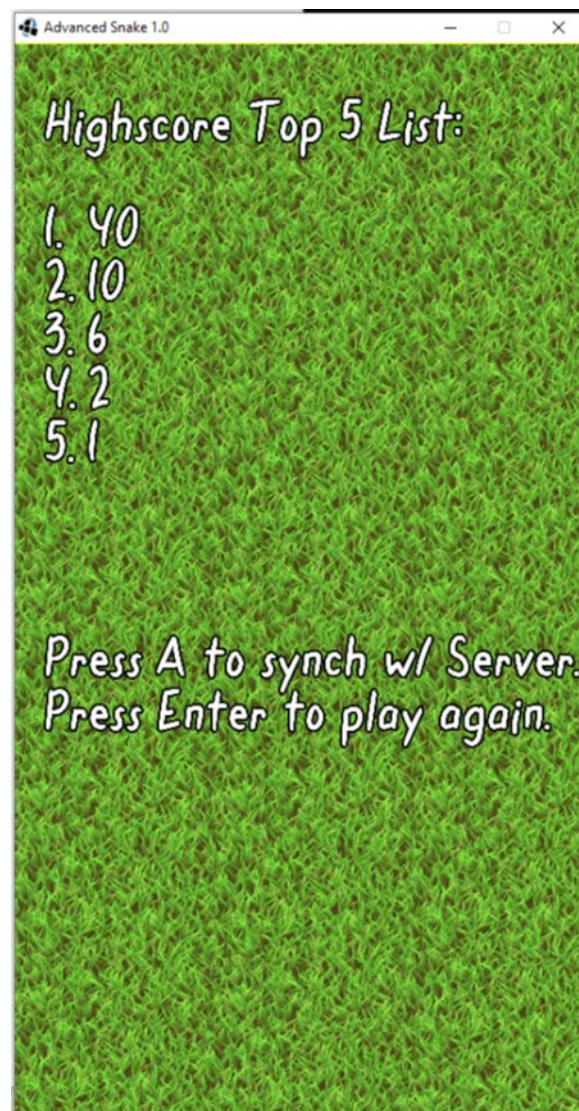
The snake grows when it eats an apple with its head. The white dot. If the head comes into contact with the body, the game is lost. At the end the score is displayed. In order to keep a clean playing surface we have omitted an active score.

- The Game Over Screen



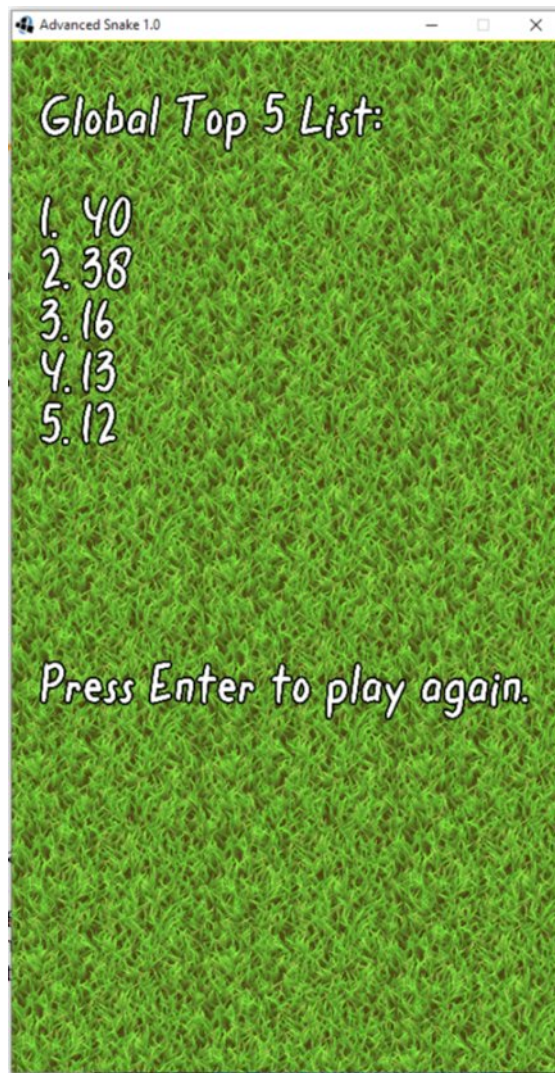
In the Game Over Screen you can see the current score and the high score. If this score was reached in the current game, the player is congratulated.

- The High Score Screen



The top 5 highscore of the current session is displayed here. Pressing the A key displays the global scores. With enter you play again. For this you need a connection to a database. For this we recommend xampp.

- Global Top 5 Highscore



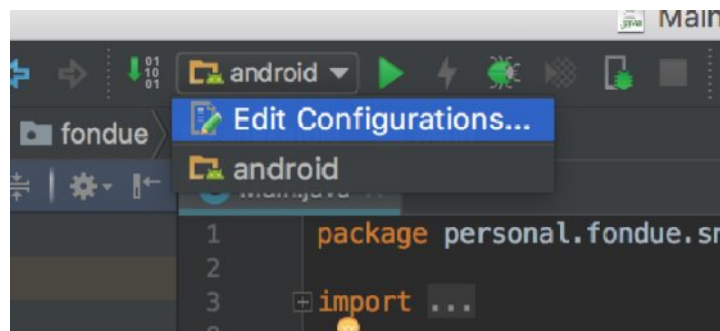
Here are the entries from the database.

i. Requirement

- Java 11 at most.
- IDE Android Studio - [link](#)
- Libgdx framework – [link](#)
- Xmapp

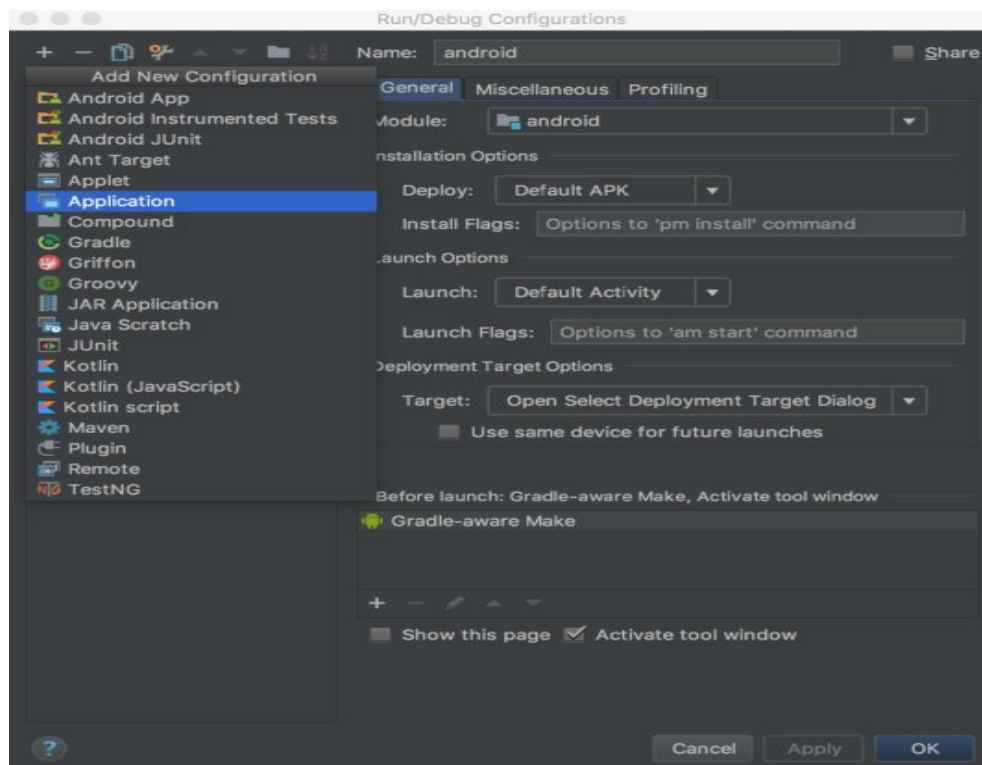
II. Installation guide

a. Set up a Libgdx project on Android:

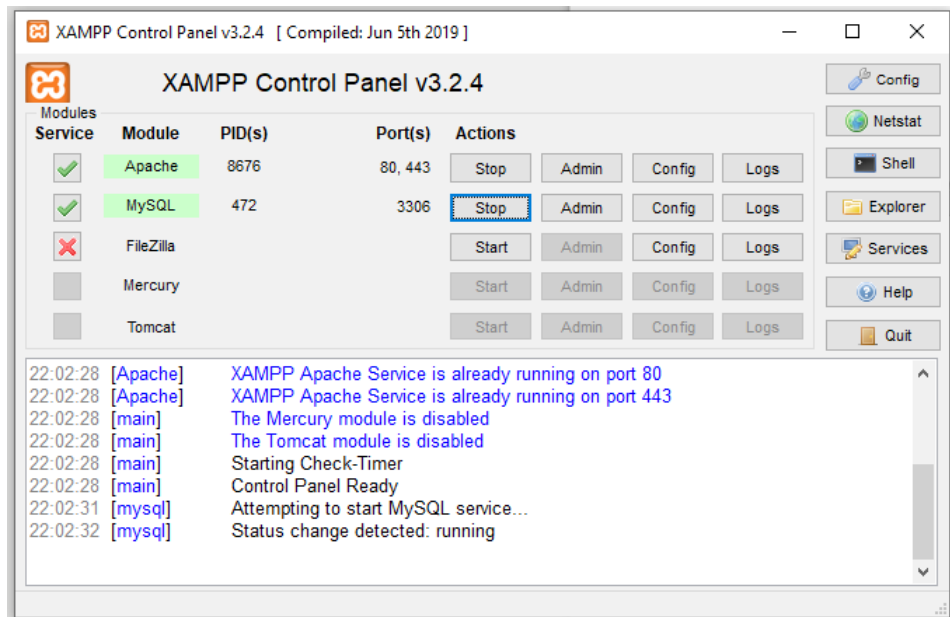


1. Click the drop-down box which currently says 'Android', then click 'Edit Configurations'.
2. In the Configurations window that has appeared, click the 'plus' in the top left to add a configuration. Select 'Application'.

3. Now we tell it that we want to use the Desktop files. In 'Main class' type "your.package.here.desktop.DesktopLauncher". If you open up the 'desktop' folder in the explorer on the left of the IDE you'll see that there's a 'DesktopLauncher' class in the src folder.
4. In the 'Use classpath of module' box select 'Desktop'.
5. Add a suitable name in the box right up the to, like 'Desktop'.
6. Change the working directory to yourGameFolder/android/assets - this folder is where textures and sounds should go.
7. Click OK



- b. set up XAMPP for Database Networking



To establish the data connection Apache and MySQL must be started and installed. After that, when the processes are activated, go to the administration of the database via Admin.

phpMyAdmin

Server: 127.0.0.1 » Datenbank: advanced_snake_db » Tabelle: highscores

Zeige Datensätze 0 - 11 (12 insgesamt, Die Abfrage dauerte 0,0007 Sekunden.)

SELECT * FROM `highscores`

☐ Messen ☐ Inline bearbeiten ☐ Bearbeiten ☐ SQL erklären ☐ PHP-Code erzeugen ☐ Aktualisieren

☐ Alles anzeigen | Anzahl der Datensätze: 25 | Zeilen filtern: Diese Tabelle durchsuchen Nach S

+ Optionen

| | | | | id | highscore |
|--------------------------|------------|----------|---------|----|-----------|
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 16 | 13 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 17 | 16 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 18 | 5 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 19 | 5 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 20 | 2 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 21 | 12 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 22 | 2 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 23 | 12 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 24 | 1 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 25 | 2 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 26 | 8 |
| <input type="checkbox"/> | Bearbeiten | Kopieren | Löschen | 27 | 38 |

☐ Alle auswählen | markierte: Bearbeiten Kopieren Löschen Exportieren

Here you need to create a database called advanced_snake_db and a table called Highscores. This consists of two columns. One "id" and "highscore".

```
public NetworkClient_w(Score score0) throws SQLException {
    this.score0 = score0;
    dbglobalscore = new Score();

    //conn = DriverManager.getConnection("jdbc:mariadb://alpha-lambda-united.eu.mysql:3306/alpha-lambda-united_eu_non-commercial", "alpha-lambda-united_eu_non-commercial", "qwerty1234qwerty");
    conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/advanced_snake_db", "root", ""); // Alternative connection in case the online database does not work.
}
```

III. Troubleshooting common mistake

Unfortunately there were problems to establish an online database connection.

IV. Appendix