

# Snake Game

## User Manual

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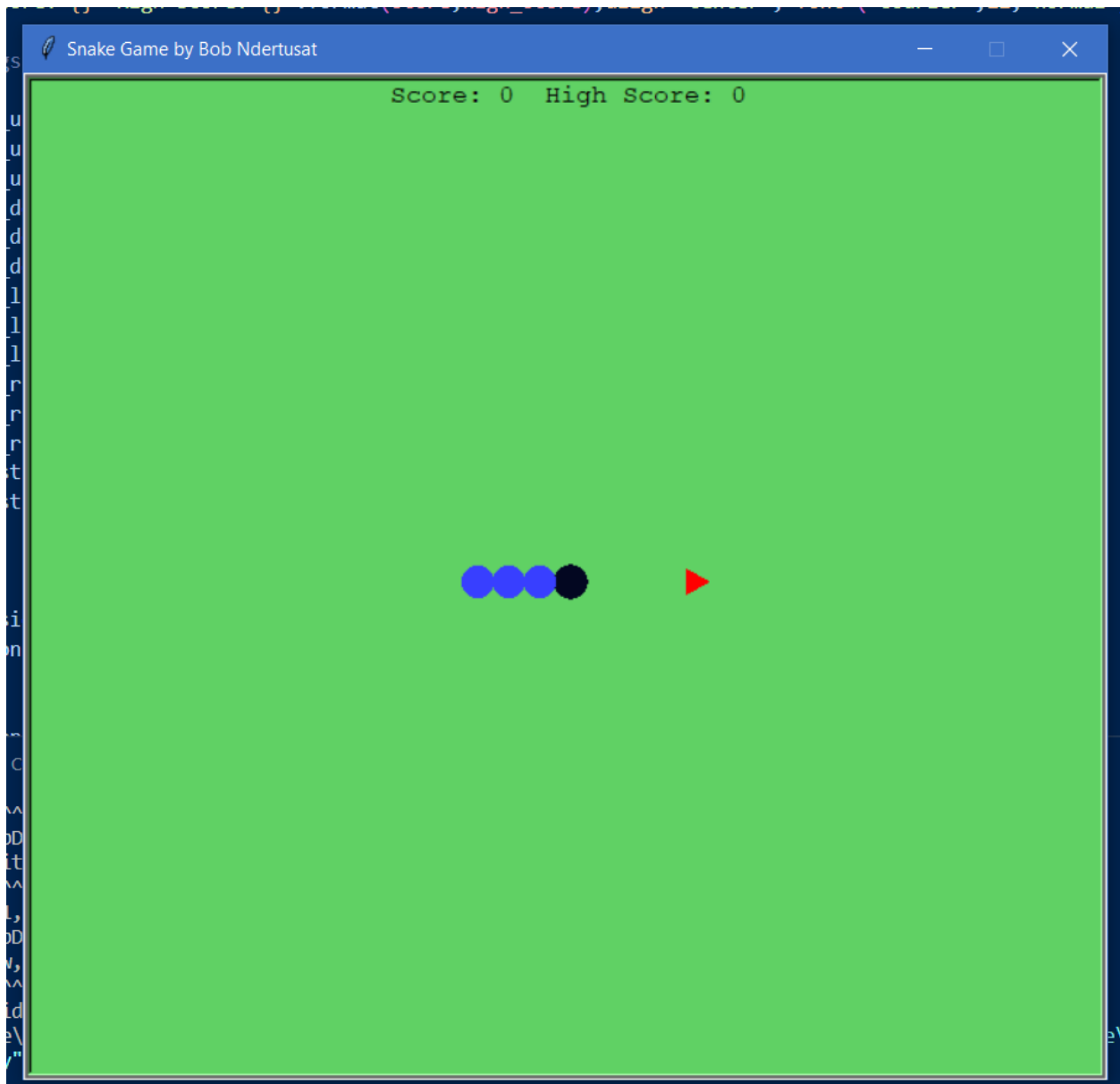
By Team Bob Ndertusat

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# 1. Introduction

Welcome to the Snake Game User Manual! This manual will guide you through the set-up process, explain the game controls, provide gameplay instructions, and offer tips to improve your performance. The Snake Game is a classic and addictive game where you control a snake, guiding it to eat food and grow longer without colliding with obstacles or its own tail. Let's dive into the details and start playing!



## 2. Game set-up

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- Download the python 3 package or a newer version on your pc or laptop.

(Windows Python- <https://www.youtube.com/watch?v=Kn1HF3oD19c>)

(MAC Python- <https://www.youtube.com/watch?v=M323OL6K5vs>)

- Download an IDE (eg. VSCode or Pycharm) to open the snake\_game.py file to play the game.

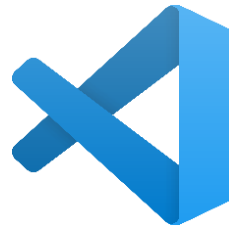
(Windows Pycharm- <https://www.youtube.com/watch?v=WJynvGY-2wk>)

(MAC Pycharm- <https://www.youtube.com/watch?v=K5cAu-Wro3M>)

(Windows VSCode- <https://www.youtube.com/watch?v=9o4gDQvVkLU&t=306s>)

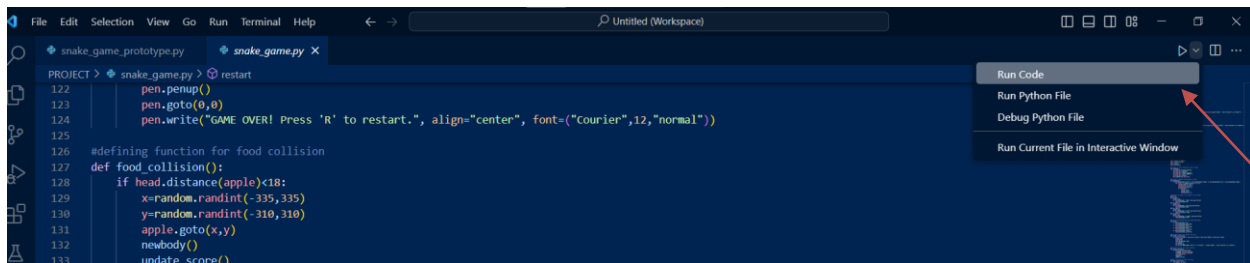
(MAC VSCode- <https://www.youtube.com/watch?v=2RoWZXcbPjw>)

- Once the installation is complete, you can open the file in the IDE and run the code to launch the game.



### 3. Starting the Game

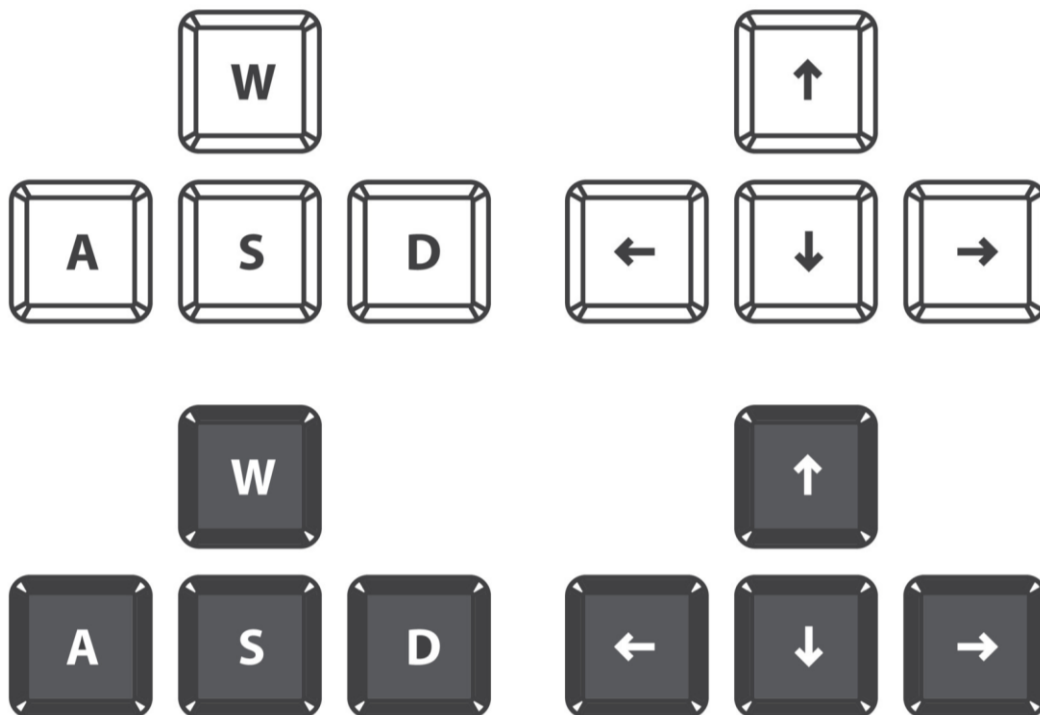
- Open your IDE with the snake code and run the code.
- The game will load, and you'll be presented with the game board (the window).
- Use the arrow keys or the 'w', 's', 'd' and 'a' keys to start playing.



## 4. Game Controls

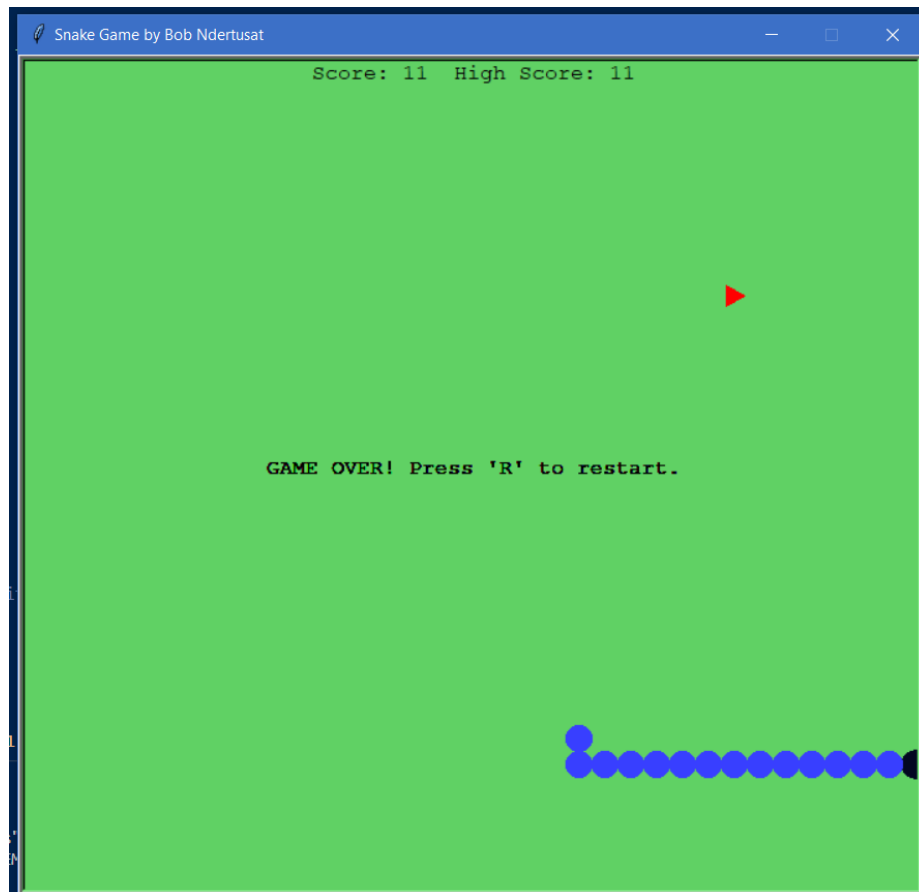
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- Use the arrow keys (up, down, left, and right) or the 'w', 's', 'd' and 'a' keys on your keyboard to control the snake's movement.
- Press the up arrow key or 'w' to move the snake upwards.
- Press the down arrow key or 's' to move the snake downwards.
- Press the left arrow key or 'a' to move the snake to the left.
- Press the right arrow key or 'd' to move the snake to the right.



## 5. Gameplay

- The game board will appear on the screen, displaying the snake, food items, and scores.
- The snake will start as a small segment.
- Guide the snake to the food by manoeuvring around the game board using the arrow keys or the 'w', 's', 'd' and 'a' keys.
- When the snake's head touches a food item, it will consume it, and its length will increase.
- Avoid collisions with the game board borders or the snake's tail. These will end the game.
- The snake will continue to move in the direction specified by the keys until the game ends and the snake stops moving.



## 6. Objectives

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- Eat the food: The snake needs to eat the food items that appear on the game board to grow longer.
- Avoid collisions: Steer clear from borders or the snake's tail.
- Grow longer: Each time the snake eats food, it will grow longer. The longer the snake gets, the higher your score.

## 7. Scoring

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- Your score increases every time the snake consumes food.
- The more points you earn, the longer the snake gets.
- Try to achieve a high score by growing the snake as long as possible.

## 8. Game Over

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- The game ends when the snake collides with the game board borders or its own tail.
- After the game ends, you will see your final score and a message to restart game.
- You can choose to press 'R' to restart the game to try again or exit the application.

## 9. Tips and Strategies

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- Plan your moves ahead: Anticipate the snake's path and plan your moves accordingly to avoid collisions.
- Use the walls to your advantage: If the snake is long enough, you can create a loop by going around the game board borders.
- Don't rush and stay focused: Take your time to make precise movements and avoid unnecessary risks.

## 10. Troubleshooting

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- If you encounter any technical issues or have trouble running the game, seek support from the game's developer.

## 11. Credits

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- The Snake Game was developed by Bob Ndertusat.