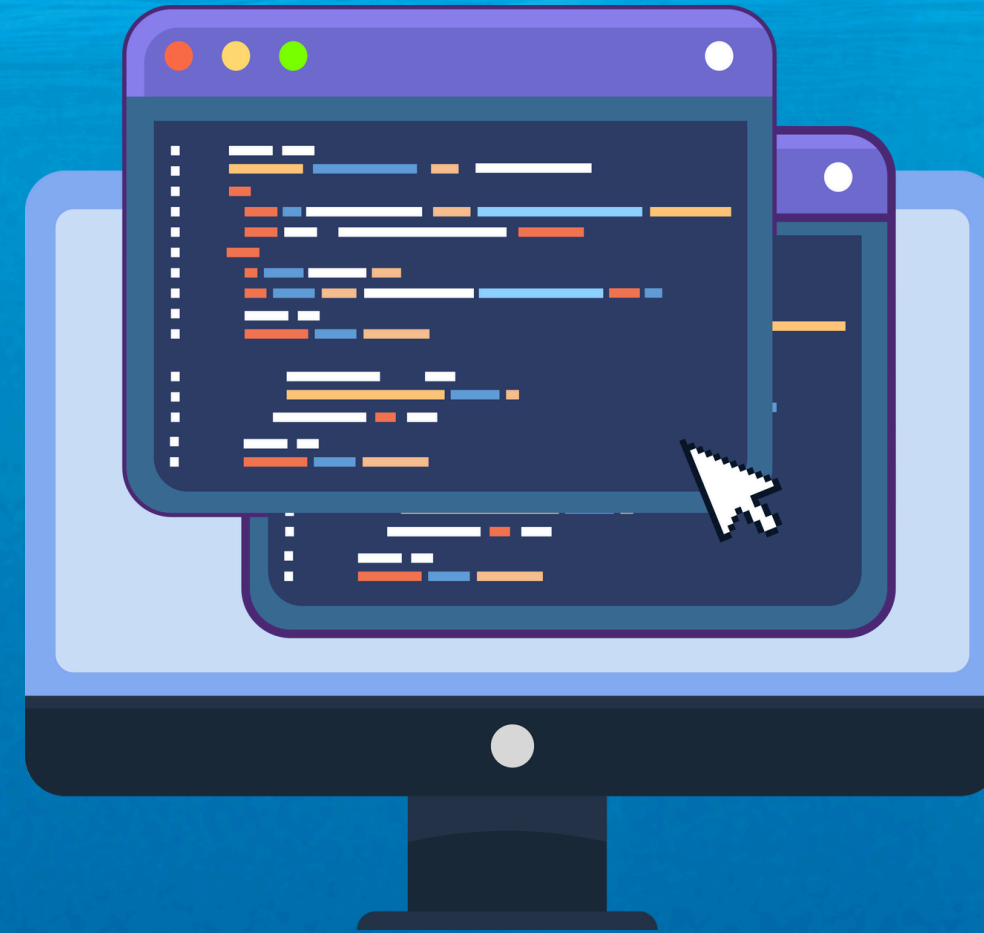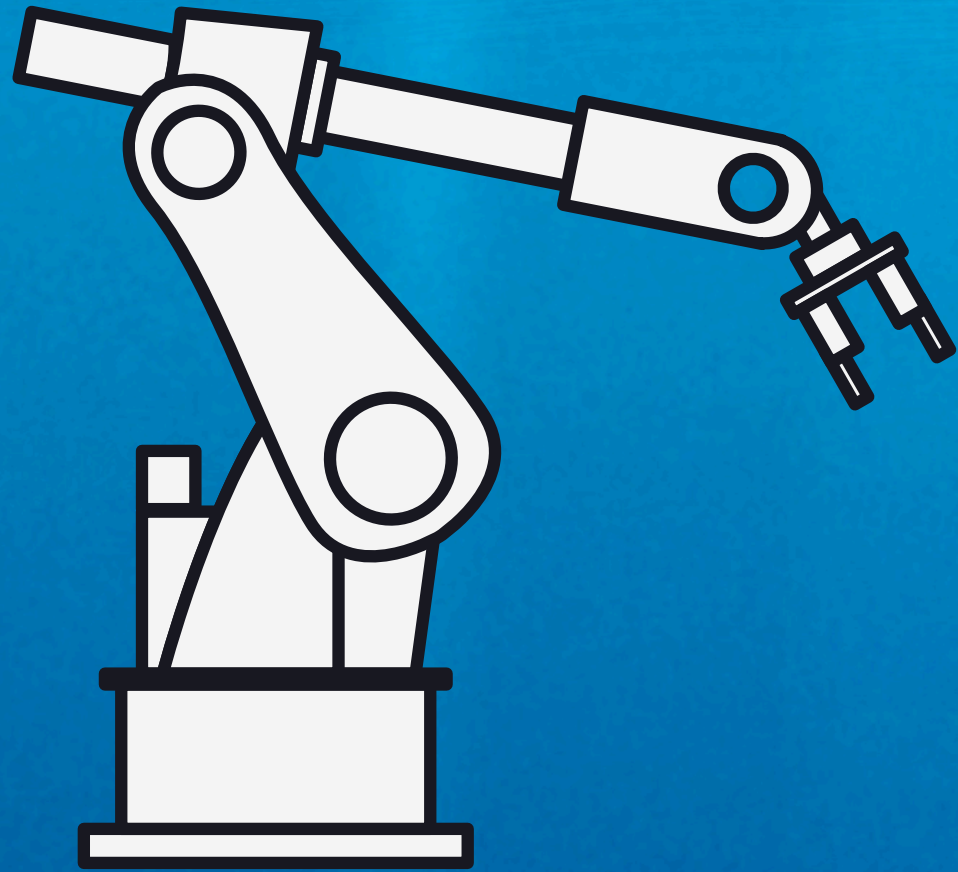# Highly Commended

Programming, Apps & Robotics

Year 7-8

Moe McPhillips

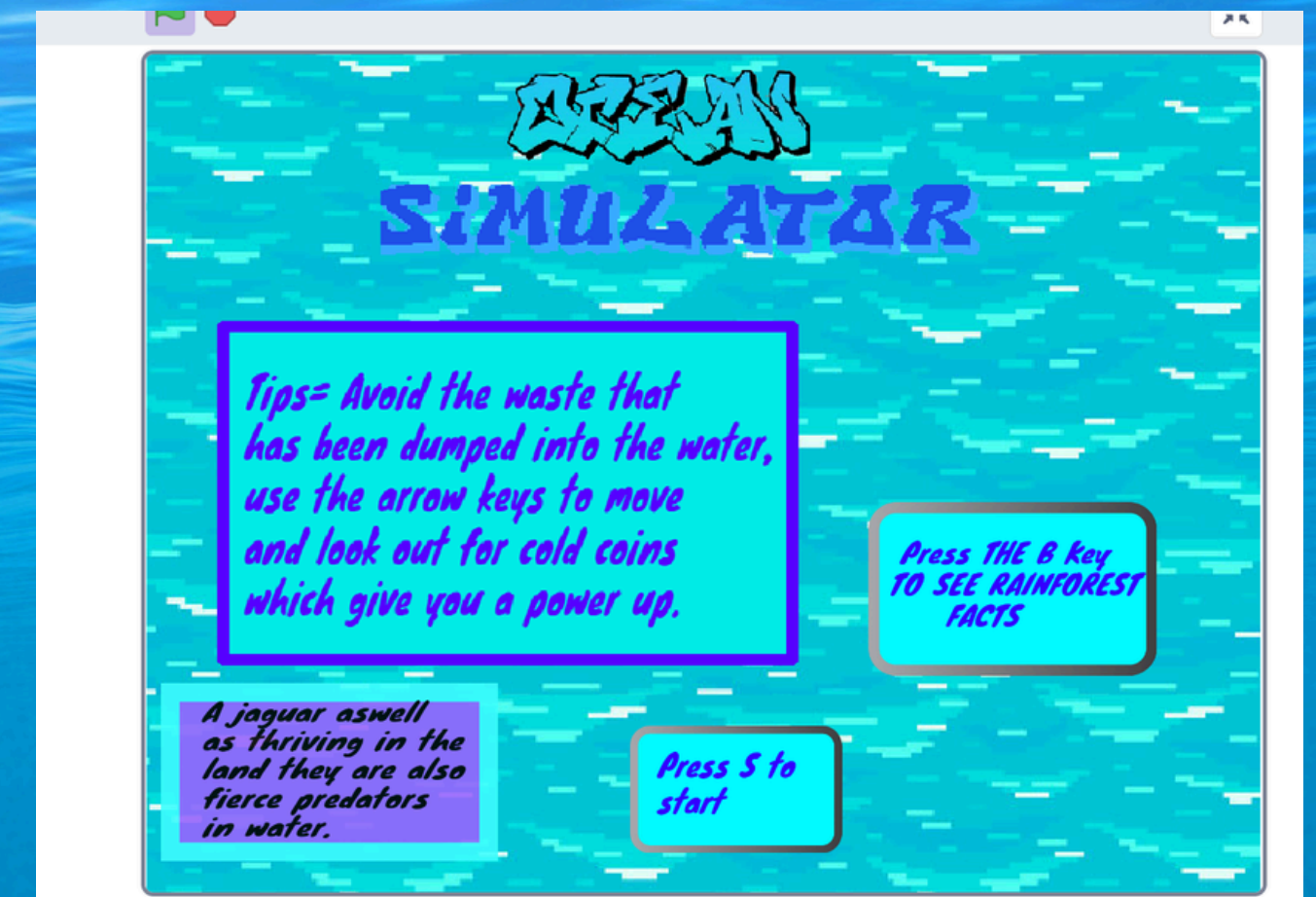# Adelaide Botanic High School

Programing apps and robotics

Hello!
Thankyou for taking the time to judge my Oliphant science awards project, I hope you like it.
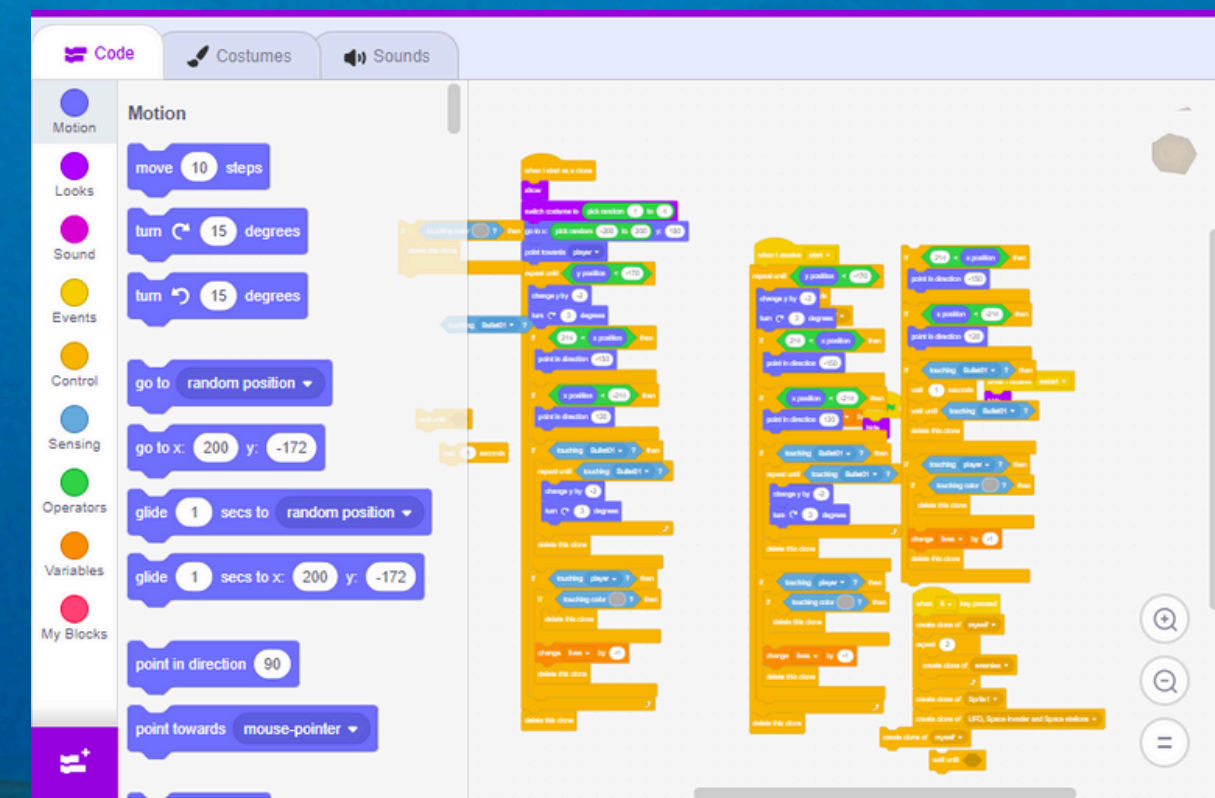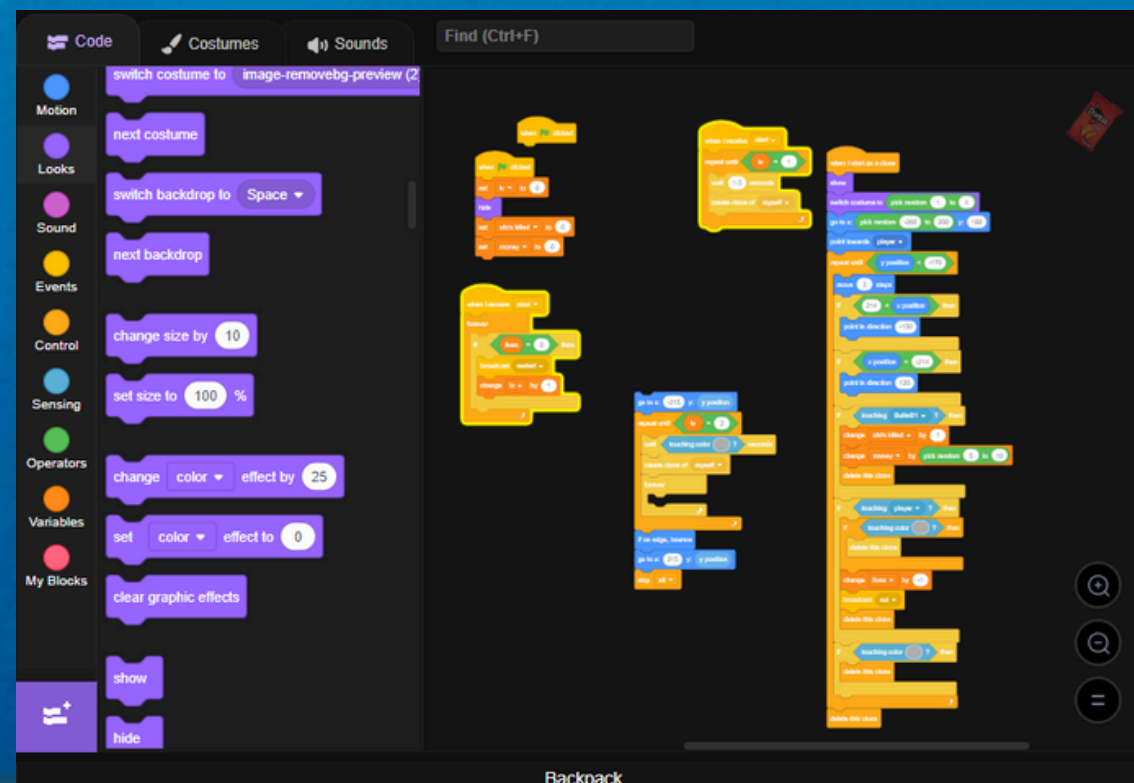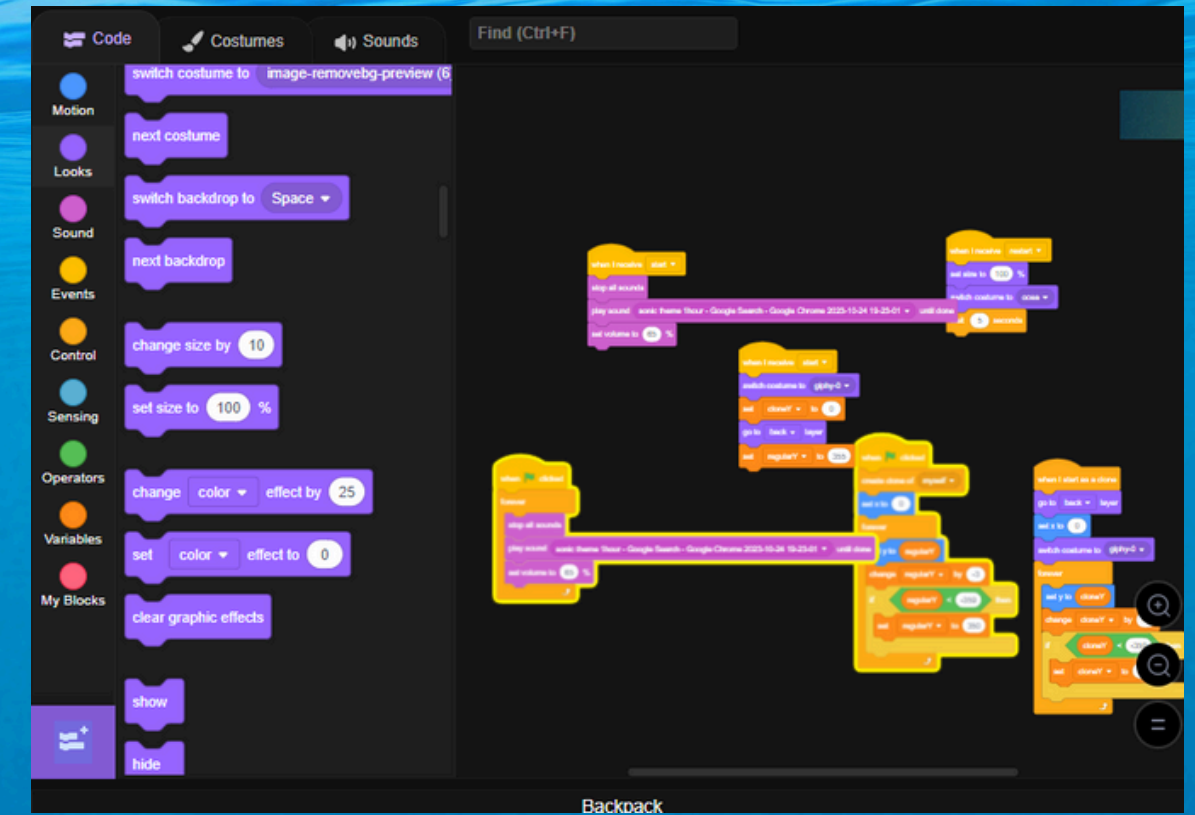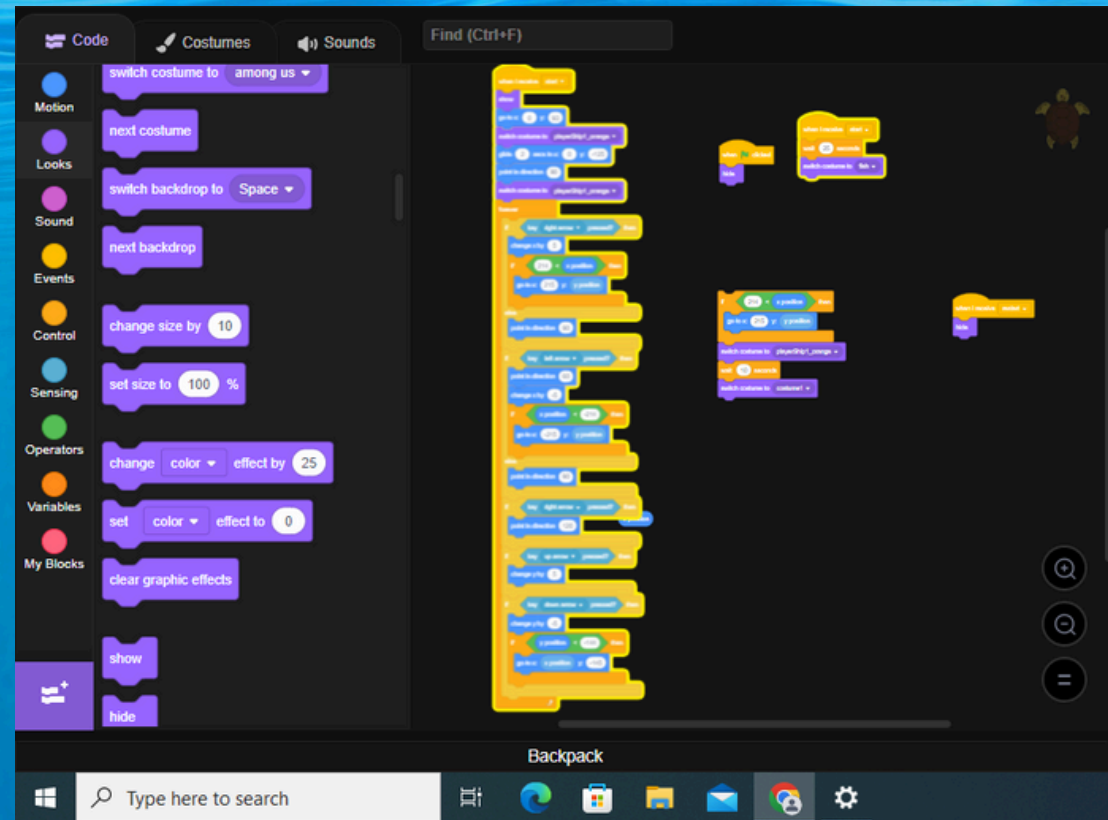
The idea?

My project that I have created for the Apps and Robotics Category is a videogame! This is a game packed with facts and statistics to help inform the user about plastic waste throughout the ocean and how we can change our habits for the better and hopefully increase this situation. This game is based off an old school arcade game like Pac-Man or Super Mario bros as the design is pixelated and has a neat and basic look throughout it, I also used common waste as the enemy while you are are turtle desperately trying to survive. I used game features like Music, powerups like a shield and different skins/characters depending on how long you have survived.
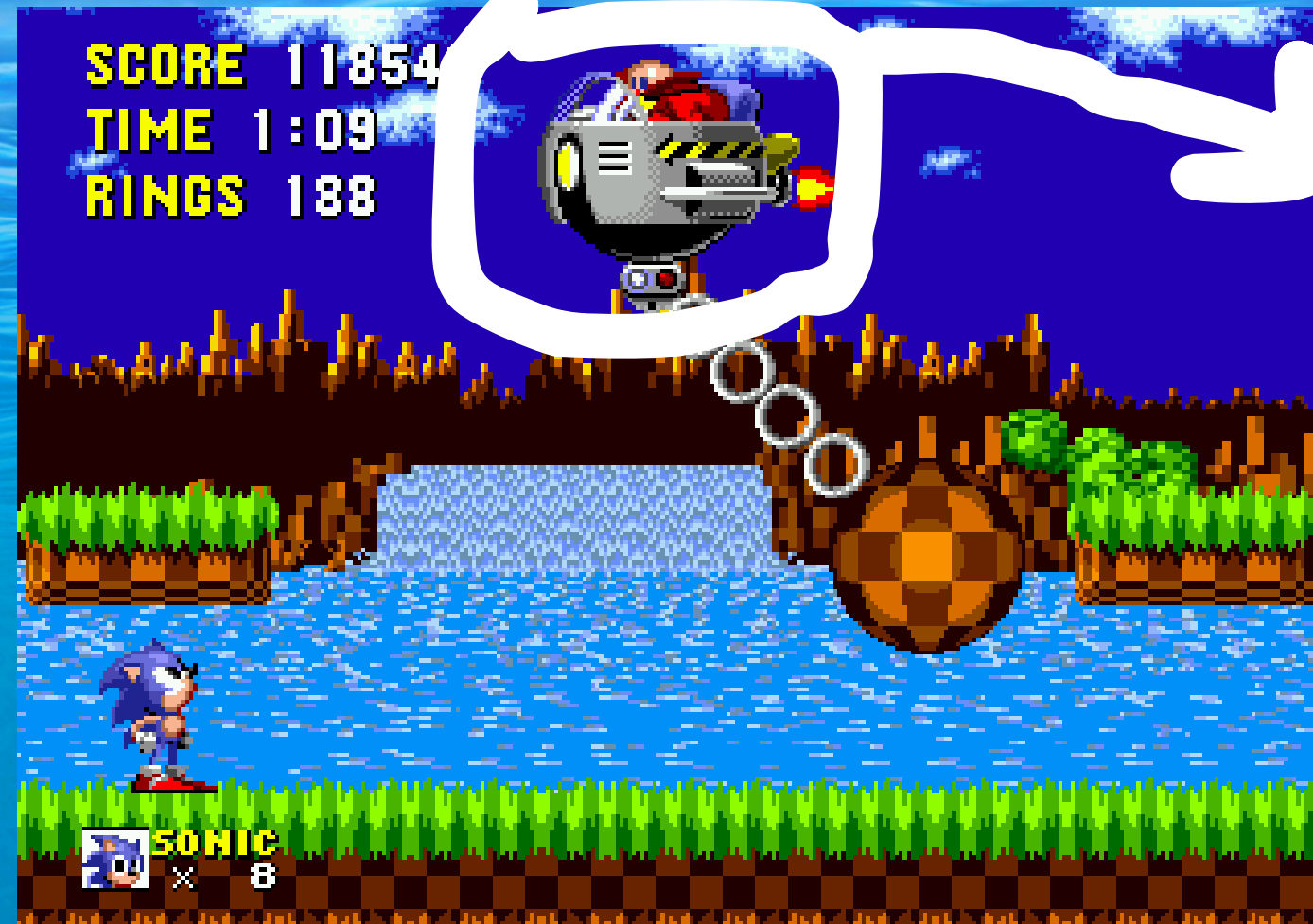
The process

This project took many hours, time and concentration to code, design and animate this game, I used multiple sections of code for each minor detail to help it to run smoothly and consistently without crashing or not correctly functioning. These pictures on the right are just some of the code to enable the basic part in my game like the constant enemies being spawned the movement of the turtle and the background music.
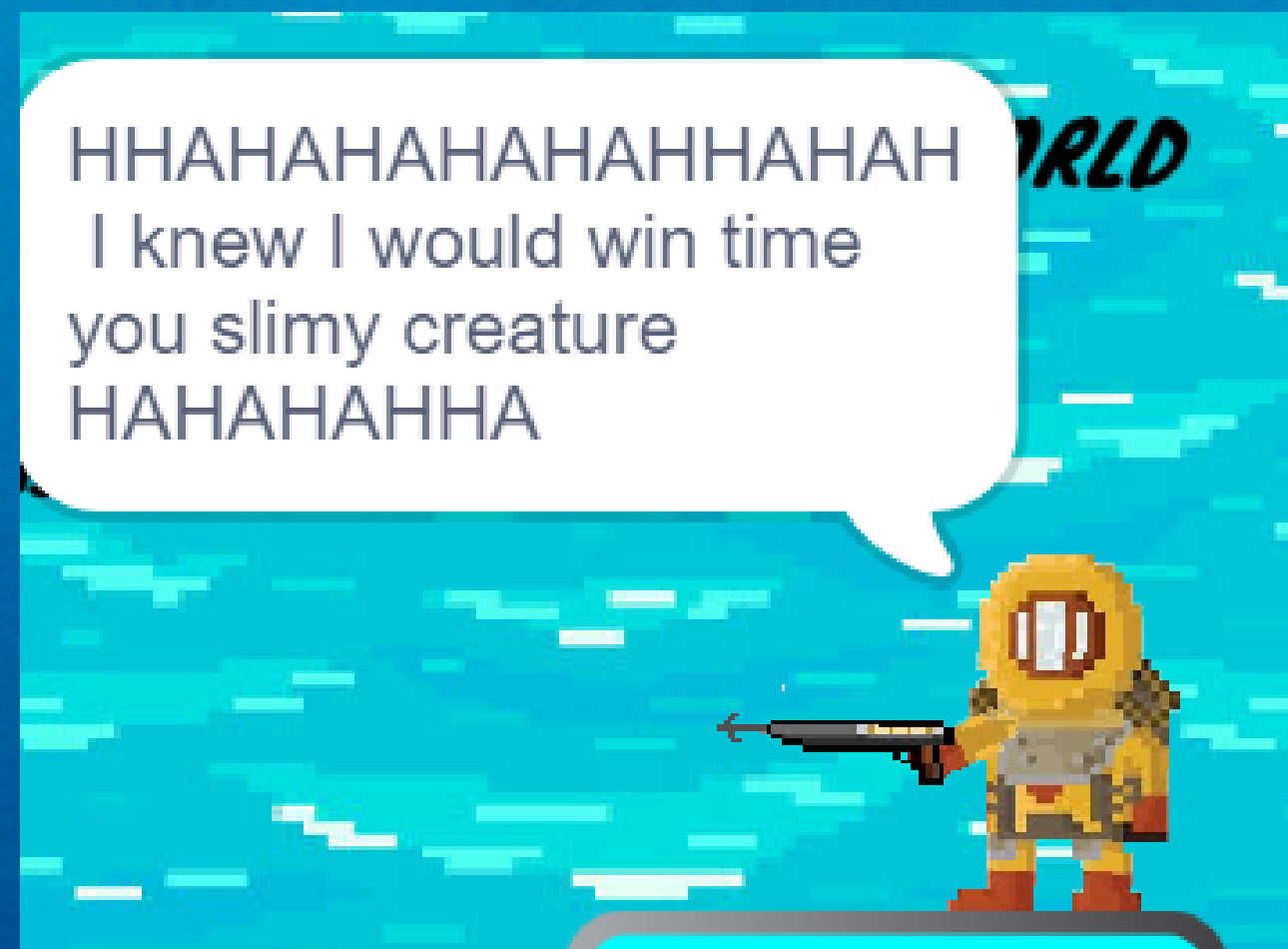
The features

My game uses interesting features that are found in other famous video games, a good example of this is the boss feature that you have to defeat just like in a sonic the hedhgehog video game and like that my boss reacts to the scenario.

This sonic game has a pixel design boss and he appears near the end of the level.

In my game I use a scuba diver hunter who is the main enemy he appears depending on how long you have survived for to increase the difficulty trying to spear the animal he says multiple evil phrases throughout the game.

Time to play!

Now that you have learnt the reasons of the creation of my game you now have the opportunity to play it, don't forget use the arrow key to move left, right, up and down aswell as dodging the rubbish and waste, also make sure to read all the facts and statistics that are shown in the game while trying to collect as many coin as possible to get a power up and soon evolve into a new character. Watch out for the boss enemy (A spear fisher) try and dodge his spear to defeat him.
FINALLY COPY AND PASTE THE LINK BELOW ON GOOGLE OR CLICK THE LINK TO VISIT MY GAME ON SCRATCH (A programming website) Press the green flag next to the red stop sign to begin to run the game, thankyou:

https://scratch.mit.edu/projects/908275360/