COAL Final Project – Fall 2019

T-eax Game

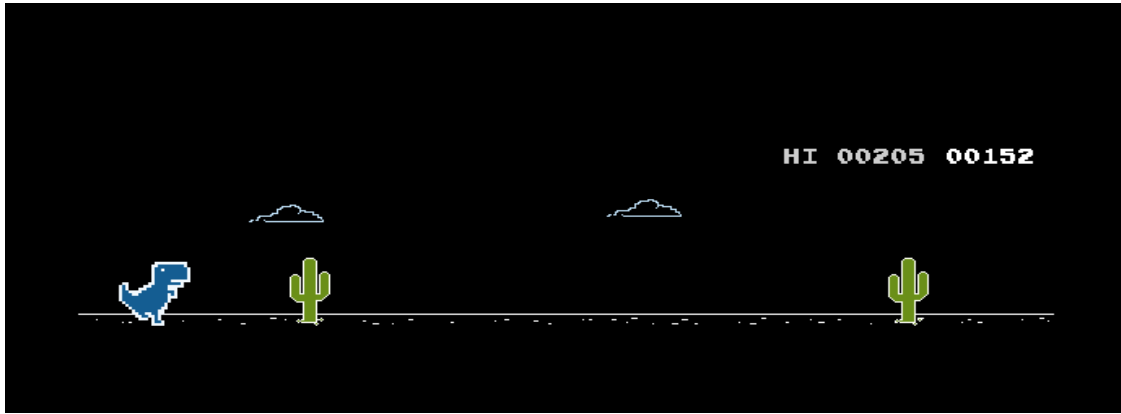
Introduction

You have to build a Game similar to the one that you play on Google chrome when Internet is not available

This project is divided into two phases. (Total Marks: 200)

In this project, you have to add some additional functionalities in T-rex game.

- While designing the Interface be as creative as you can.
- Game should be menu based.
- There should be in total **five chances** to play the same game, if the bot/dino loses the game.
- Last **3 Highest scores** and remaining **Life count** should be displayed at the top of game screen.
- Keep log of highest scores in a text file along with **data and time**.
- Instructions of game should be displayed from a text file
- Hurdles should appear **randomly**.
- Name of player should be displayed on the screen.
- Extra lives in the shape of hearts should also appear along with hurdles but with relatively less probability
- Dino should be able to move both forward and backward (use right and left arrow key). Also it can jump and bend to avoid hurdles (use up and down arrow key).
- After some particular addition in score (e.g. 50 points), **level of game** should upgrade i.e. speed of hurdles should increase.

Phase 1 (Deadline 7 November 2019)

You are to design the **layout of screens** in 1st phase of project. **(50 Marks)**

You have to design **3 Screens** and redirection to these screens should be using **Mouse Interrupt.**

5 Marks

Screen 1: (Game Menu)

→ Play

→ Instructions

→ Exit

5 Marks

Screen 2: (Game Instructions)

→ Load instructions from file and display on console

40 Marks

Screen 3: (Game Interface)

→ Display Bot (Dino et cetera)

→ Display at least 3 Hurdles (both Terrestrial and Aerial)

Note: You'll be evaluated based on the count/number and creativity of your hurdles

→ Display Health (no. of lives) and Score

Phase 2 (Deadline 14 November 2019)

You have to submit **running game with all functionalities** described above. **(150 marks)**

Additional features like sound et cetera will help you secure more marks.

Instructions

- *The project consists of **2 phases**. Each phase will have a deadline. If you miss a deadline of a particular phase you will not be awarded any credit in that phase.*
- *You are required to use **MASM615** and **DOSBox.***
- *This is group Project (max 3 members).*
- *User Interface is important in this project. Try to develop an attractive user interface.*
- *Use of extra features in the project is encouraged.*
- *Use good programming practices (well commented and indented code; meaningful variable names, readable code etc.).*
- *Copy/cheating case will be awarded an "F" grade in the course.*

Good luck ☺