Super Hero (Python Project)

Introduction:

This is a simple single player game consisting of a character which is required to collect the treasure(coins) while crossing the hurdles on its path. The game consists of a character (super hero), coins, moving hurdles (planks), cactus (side boundaries), two dragons which breathe out fire, a gunman firing bullets and finally a flag which is to be collected to win the game. The game starts with the super hero being at the bottom of the screen and he is expected to reach the top of the screen while collecting coins and crossing hurdles. He wins when the hero collects all the coins and collects the flag. He loses if he touches the cactus/hurdles.

This game is based on application of a tool called Pygame. We have learnt and implemented many things using Pygame. We have learnt how to create the screen, change the colors of the screen, display icons and images on the screen, create multiple screens and how to change the screen based on the course of the game. We have also learnt how to move the objects on the screen and how to make them appear and disappear on the screen.

The game consists of four screens which are displayed accordingly. All the screens have been given a suitable background music. The first screen opens when we run the program. We have displayed the name of the game and icon and instruction on how to start the game. We have also enabled the user input on screen which takes the player's name and displays it at the end of the game. The second screen displays after the instruction has been passed onto the first screen. The entire gameplay is displayed in the second screen along with the background music. Here we have created a scoreboard which displays how many coins have been collected. A background music has been given while collecting the coins. The player must collect all the coins in order to win.

The third screen displays when the player loses and the fourth screen is displayed when the player wins the game. If the player loses, a screen is displayed consisting of player's name and score along with a crying emoji and a message. If the player wins, the fourth screen is displayed which displays a trophy and a Congratulations message.