Lab Sheet Phaser Physics Week09

Create physics for the "PacRio" game. In the game, the player has to collect all the mushrooms within a period of time while bouncing on a movable platform. The score is based on how much time the player spent to collect the mushrooms. Notes that currently the character is controllable while the platform is dragable. Modify it so the character can only bounce while the platform is control.

For lab this week, you need to:

Task 1: Create a physics where the character can bounce over the platform

- Start physics arcade game.physics.startSystem(Phaser.Physics.ARCADE)
- Assign physics to elements (bot and dragablePlatform)
 game.physics.enable([bot,dragablePlatform], Phaser.Physics.ARCADE);
- Set dragablePlatform to static so it is not affected by gravity dragablePlatform.body.immovable = true;
- Make the game world bounds bounce-able bot.body.collideWorldBounds = true;
- Sets the image bounce energy for the horizontal and vertical vectors (as an x,y point). "1" is 100% energy return bot.body.bounce.setTo(1, 1);
- Refine physics so the character bounce energy depends on the distance between the platform and the character

Task 2: In default, the character has to fall according to gravity

bot.body.gravity.y = 200;

 Assign a bounce energy parameter (either x or y or both) bot.body.bounce.y = 1; bot.body.bounce.x = 1;

Task 3: Add physics to mushrooms and destroy mushrooms when collide

- Create a group theMushroom = game.add.group();
- Assign body to the mushrooms in the group theMushroom.enableBody = true;
- Assign physics Arcade to the mushrooms in the group theMushroom.physicsBodyType = Phaser.Physics.ARCADE;

Further Task: This is a simple application of arcade physics. Is it possible to implement this with other physics system?