Chocolate Factory!

Introduction

Happy National Chocolate Day! Today would be a great day to create our own chocolate bar! Tom has created a simple game that does this however he requires your help to make it so much better!

Setup

1. Go to this link: https://tinyurl.com/SCDChocolateFactory

2. Download all the files and folders there (You might need to extract them from a zip file if it is downloaded as one)

3. Open IDLE

4. File → Open

5. Find the file called main.py

6. Run → Run Module

Hopefully the game should then play then you can go to the tasks.

If not then you need to install pygame. On a Dojo Laptop open up the terminal and type in at the prompt:

```
sudo apt install python3-pygame
```

If you are on windows and have python installed then you need to open up command prompt as an administrator and type:

```
pip install pygame
```

The game should now play!

This can be quite tricky so if you don't understand then don't panic as it is tough. Tom even found this difficult while making this.

If you don't want to try the tasks below why not try making your own simple game using the techniques you can see within this project?

Task 1

Have a look at the comments (Lines beginning with the #) see if you can work out how the program works. If you work it out see if you can explain it to a dojo volunteer!

Go to Line 66 change the background colour of the game

When you think you have done it click run → run module to see if you were right

Task 2 – Challenge Alert!

There are two toppings already available for your chocolate: hazelnuts and sprinkles.

Try adding a new topping

To do this you will need a button (https://www.clickminded.com/button-generator/) The colour of my buttons are: #1277d8

Lines 26-51 show you how to make a button surface and the button rectangles. Use them to help you!

Task 3 – Super Challenge!

When you press the chomp button, a sound is played as if someone is eating the chocolate bar.

As this plays try adding a sprite that will slowly cover up the chocolate bar as if it is being eaten!

Use the chocolate.py file to help as as this holds all the information about the bar. However you can do this all within the main.py file.