Configuration management student activity

Eng. Raghad al-hossny

You are working in groups of two students.

Your task is to practice collaborative Git workflows and create and resolve merge conflicts using GitHub and Python.

Step 1
*Create a new GitHub repository called **MiniPetSimulator**.*

Step 2
Clone the repository on both devices used by the two students.

Step 3
From the main branch, create two new branches:

- *development*
- *production*

Step 4
Switch to the development branch and implement Version 1 of a simple Python console application.

Application description (Version 1):
Create a file called pet.py that contains a pet class with:

- name
- energy_level

Create a file called main.py that:

- creates one Pet object
- prints the pet name

- prints the energy level

Commit and push this version to the production branch.

Step 5
On both devices, pull the latest changes from the production branch.

Step 6
Each student must create a feature branch from the development branch:

- *Student A: feature/feed-pet*
- *Student B: feature/play-with-pet*

Step 7
Implement the features as follows:

- *In feature/feed-pet, add a feed_pet() method that increases the pet's energy level and prints a message, make the output in the main.*
- *In feature/play-with-pet, add a play_with_pet() method that decreases the pet's energy level and prints a message, make the output in the main.*

Both students must modify the same Pet class inside pet.py.

Step 8
Push both feature branches and open pull requests to the development branch.
Each pull request must be reviewed and merged by the other student.

This step should result in a merge conflict in the pet.py file

Resolve the merge conflict so that:

- *both methods exist*
- *the application runs correctly*
- *the pet's energy level is updated properly*

Step 9
After both features are merged, pull the updated development branch on both devices.

Step 10
On both devices, merge the development branch into the production branch locally.

Deliverables:

- GitHub repository link
- Screenshots of pull requests.
- Final working Python application.