

## Lab 10: Review

Solve the problem of lab 9 using RF

Uses only first 2 features: sepal length and sepal width

Filters to Setosa vs Versicolor (labels 0 and 1)

Defines a custom Gym environment

Implements a Q-learning agent

Uses KMeans clustering to discretize continuous input space

Tracks and plots:

- Total rewards per episode
- Precision and recall

**Step-by-step setup to run the code locally in VS Code or Jupyter:**

---

### 1. Install required packages

Open your terminal and run:

```
pip install gym numpy matplotlib scikit-learn
```

Please open the file to continue it.