


Exercise1

Understanding Particles and Atomic Notation

By Layan, March 11, 2025 - 08:55 AM



Look around you: the sun rises in the east in the morning, the moon appears at night, and it orbits the Earth within twelve months. There are many other natural orders in the universe. Amazing, right? Even electrons in the smallest particles are arranged neatly following quantum numbers. Wow! What are quantum numbers?

Electrons are distributed around the atom in an orderly manner based on energy levels. This distribution is represented by quantum numbers, indicating specific positions of electrons. Imagine if electrons were randomly placed—the universe would be unstable! That's why order is important.

Basic Particles and Atomic Symbols

Atoms consist of three fundamental particles: protons (p), neutrons (n), and electrons (e). The atomic mass formula is:

$$\text{Atomic Mass} = (\text{Proton Mass} + \text{Neutron Mass}) + \text{Electron Mass}$$

Since electron mass is extremely small, it is often ignored in calculations.

Particle	Symbol	Mass (g)	Charge
Proton	p	1.673×10^{-24}	+1
Neutron	n	1.673×10^{-24}	0
Electron	e	9.109×10^{-28}	-1

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Exercise 2:

List of Protected Animals



Orangutan

The orangutan is characterized by reddish fur covering its entire body. This primate is the largest tree-



Golden Monkey

This unique monkey is known for its remarkable adaptation to its cold mountain environment. Typically, this monkey, distinguished by its golden fur, lives in high-altitude forests.



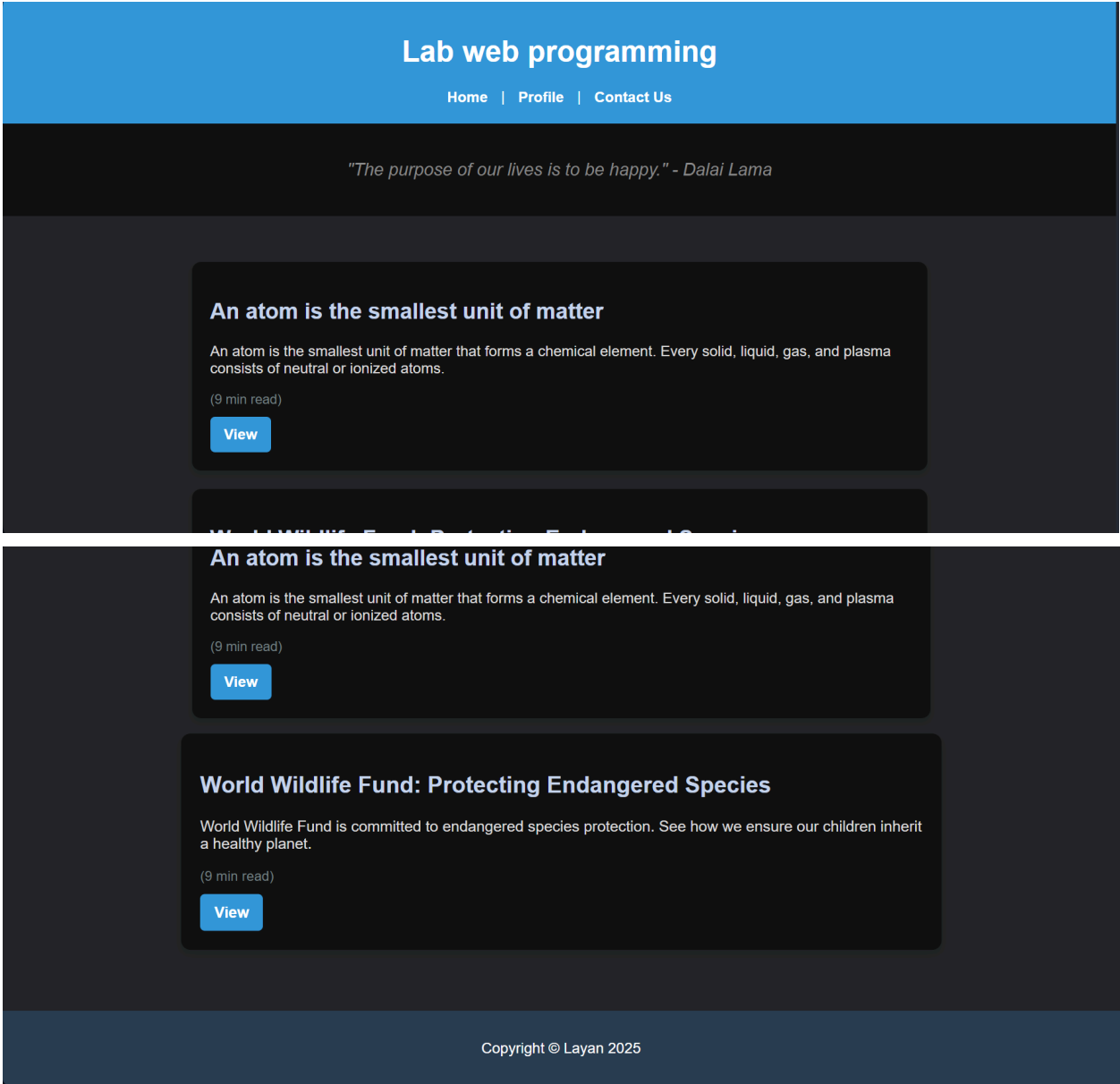
memory, distinguished by its golden fin, lives in high-altitude forests.



Bird of Paradise

The bird of paradise is considered a rare species and can only be found in Papua. Its stunning appearance makes it a frequent target of poachers for illegal trade.

Exercise 3:



Exercise 4:

My Portfolio

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Hello, I'm Layan!

Welcome to my portfolio. I am passionate about web development and design. Here you will find my projects, experiences, and skills.

My Projects

My Projects

Project 1

Developed a web application for task management using HTML, CSS, and JavaScript.

Project 2

Created a responsive website for a local business with modern UI/UX design.