

# BT101\_Fall 2024

## Assignment 01

**Due Date:05-11-2024**

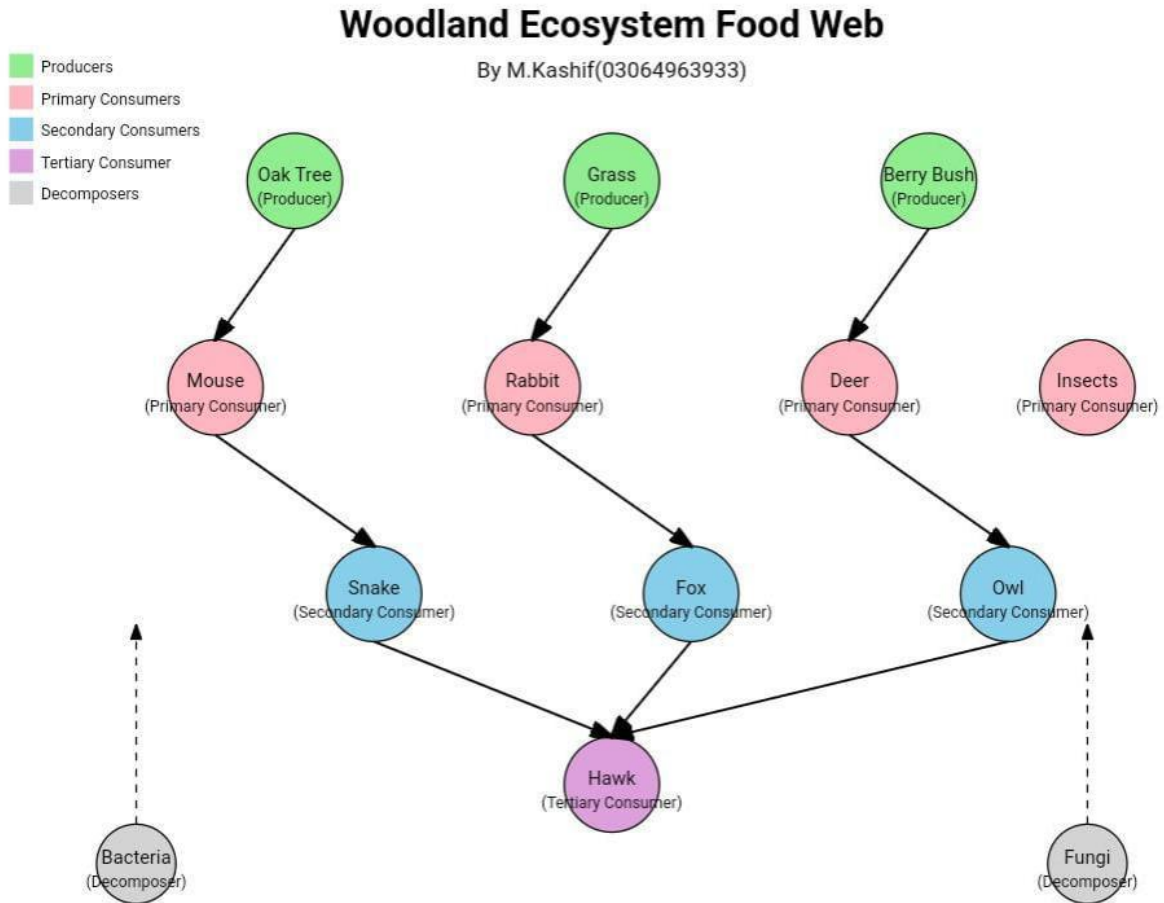
**By M.Kashif(03064963933)**

**Design a flowchart that depicts a food web for a local ecosystem. Show how various organisms (producers, primary consumers, secondary consumers, etc.) are interconnected and the flow of energy between them."**

*Image Should be Software Based*

1. **Producers:** At the base of the food web, plants, algae, and phytoplankton convert sunlight into energy through photosynthesis, creating a source of energy for the rest of the ecosystem.
2. **Primary Consumers:** These are herbivores that feed directly on producers. Examples include insects, small fish, rabbits, and deer. They obtain energy by consuming plants or algae.
3. **Secondary Consumers:** Predators that eat primary consumers. Examples include small birds, frogs, and larger fish. These organisms obtain energy by consuming herbivores.
4. **Tertiary Consumers:** Higher-level predators that eat secondary consumers, such as foxes, owls, and larger fish species. They are often at the top of the food web and obtain energy by consuming smaller predators.
5. **Decomposers:** These organisms, including fungi, bacteria, and scavengers like vultures, break down dead organisms and waste, recycling nutrients back into the ecosystem. This supports producers and maintains ecosystem balance.

The **energy flow** moves from the producers upward through each consumer level, with decomposers cycling energy and nutrients back to the ecosystem. Arrows in the flowchart would indicate the direction of energy transfer, showing interdependence between each level.



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