

Examples

Example: Pseudocode to classify an organism into the domains and kingdoms of life:

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IF(Organism's cell has nucleus)
  Organism belongs to domain : Eukaryote
  IF(Organism has cell walls)
    IF(Organism performs photosynthesis)
      Organism belongs to kingdom: Plants
    ELSE
      Organism belongs to Kingdom: Fungi
  ELSE
    Organism belongs to Kingdom: Animal
ELSE
  Organism belongs to domain : Procaryote
```

Example: Pseudocode to identify if an organism is an orca, assuming it belongs to the cetacean family.

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IF (Organism has Teeth)
  Organism belongs to toothed whale family
  IF (Organism has black skin with white eye markings and
belly)
    Organism is an Orca
  ELSE
    Organism is some other kind of toothed whale.
ELSE
  Organism is a Baleen Whale of some kind
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Example: Pseudocode to identify some animals found at Science North, using the sort of classifying traits students might come up with by themselves through observation (rather than academic research.)

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IF (Organism has backbone)
  IF(Organism has fur)

    IF(Organism has no fur on tail)
      Organism is a beaver
    ELSE IF(Organism has spines)
      Organism is a porcupine
    ELSE IF(Organism has black and white striped fur)
      Organism is a Skunk
  ELSE IF(Organism has scales)
    IF(Organism has shell)
      IF(Organism has a hooked beak)
        Organism is a Snapping Turtle
      ELSE IF(Organism has pattern of yellow lines on skin)
        Organism is a Map Turtle
      ELSE IF(Organism has red lines on skin)
        Organism is a Painted Turtle
    ELSE IF(Organism is venomous)
      Organism is a Mississauga Rattlesnake.
  ELSE IF(Organism has leopard pattern on skin)
    Organism is Leopard Frog
ELSE
  Organism is an invertebrate.
  
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