

## The Algorithm: **conjugateVerb(verb, subject)**

### Step 1: The Exception Check (Handle Irregulars First)

Before applying rules, check your "Dictionary of Weirdos."

- IF **verb** == "Hunu" OR **verb** == "Jaanu":
  - Return hardcoded value from Exception List.
  - (See previous table for these values).

### Step 2: Extract the Root

- **Input:** **verb** (e.g., "Khanu", "Basnu")
- **Logic:** Remove the last 2 characters ("nu").
- **Result (root):**
  - "Khanu"  $\rightarrow$  "Kha"
  - "Basnu"  $\rightarrow$  "Bas"

### Step 3: Determine the "Stem Type"

Check the last letter of the **root**.

- **Is Vowel?** (Ends in a, i, u, e, o)  $\rightarrow$  Set **isVowel = True**
- **Is Consonant?** (Everything else)  $\rightarrow$  Set **isVowel = False**

### Step 4: Apply the Suffix Map

Use this logic table to concatenate the string.

Subject	If isVowel = False (Consonant Root)	If isVowel = True (Vowel Root)	Logic Note
Ma (I)	<b>root + chhu</b>	<b>root + nchhu</b>	Vowel roots add a nasal "n"
Haami (We)	<b>root + chhau</b>	<b>root + nchhau</b>	Vowel roots add a nasal "n"
Timi (You)	<b>root + chhau</b>	<b>root + nchhau</b>	<i>Same as Haami!</i>

<b>Tapaai / Uha</b>	root + nuhunchha	root + nuhunchha	<b>Universal Rule:</b> Just add "nuhunchha" to the root.
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## Test Cases for Your Code

### Test 1: Consonant Verb (**Basnu** - To Sit)

1. **Root:** "Bas" (Ends in 's'  $\rightarrow$  Consonant)
2. **Ma:** "Bas" + "chhu" = **Baschhu** (Correct)
3. **Tapaai:** "Bas" + "nuhunchha" = **Basnuhunchha** (Correct)

### Test 2: Vowel Verb (**Khanu** - To Eat)

1. **Root:** "Kha" (Ends in 'a'  $\rightarrow$  Vowel)
2. **Ma:** "Kha" + "nchhu" = **Khanchhu** (Correct)
3. **Tapaai:** "Kha" + "nuhunchha" = **Khanuhunchha** (Correct)

### Test 3: The "Double Vowel" Edge Case (**Piunu** - To Drink)

1. **Root:** "Piu" (Ends in 'u'  $\rightarrow$  Vowel)
2. **Ma:** "Piu" + "nchhu" = **Piunchhu** (Correct)