

SAMPLE TEST CASES

1. Learning Mechanism

Remembers which word the user selects , Boosts that word's ranking next time and improves the accuracy of predictions based on user history

```
C:\Users\hp\Downloads\harshitha\Braille_Corrector_Learning>python main.py
Select language: [en] English | [hi] Hindi
Language code: en
Enter Braille input using QWERTY key mapping (e.g., DQ DK DQ):
Braille Input: DQ DK DQ
Decoded Word: kck
Suggestions:
1. block
2. cop
3. cat
4. click
5. hat
Select the correct word (1-5), or press Enter to skip: 2
Learned correction: cop

C:\Users\hp\Downloads\harshitha\Braille_Corrector_Learning>python main.py
Select language: [en] English | [hi] Hindi
Language code: en
Enter Braille input using QWERTY key mapping (e.g., DQ DK DQ):
Braille Input: DQ DK DQ
Decoded Word: kck
Suggestions:
1. cop
2. block
3. cat
4. click
5. hat
Select the correct word (1-5), or press Enter to skip: 3
Learned correction: cat
```

2. Validates multi-language capability by testing against the Hindi dictionary.

```
C:\Users\hp\Downloads\harshitha\Braille_Corrector_Learning>python main.py
Select language: [en] English | [hi] Hindi
Language code: hi
Enter Braille input using QWERTY key mapping (e.g., DQ DK DQ):
Braille Input: DQ DK DQ
Decoded Word: kck
Suggestions:
1. vah
2. kam
3. aap
4. tum
5. mera
Select the correct word (1-5), or press Enter to skip: 2
Learned correction: kam
```

3. **WQ KO OP** (→ contraction the)

Confirms that Braille contractions are correctly recognized from specific dot combinations

```
C:\Users\hp\Downloads\harshitha\Braille_Corrector_Learning>python main.py
Select language: [en] English | [hi] Hindi
Language code: en
Enter Braille input using QWERTY key mapping (e.g., DQ DK DQ):
Braille Input: WQ KO OP
Decoded Word: ???
Suggestions:
1. cat
2. cop
3. block
4. hat
5. bat
Select the correct word (1-5), or press Enter to skip: 3
Learned correction: block

C:\Users\hp\Downloads\harshitha\Braille_Corrector_Learning>_
```

4. Tests fallback behavior when decoded word has no exact or close match in the dictionary.

```
C:\Users\hp\Downloads\harshitha\Braille_Corrector_Learning>python main.py
Select language: [en] English | [hi] Hindi
Language code: en
Enter Braille input using QWERTY key mapping (e.g., DQ DK DQ):
Braille Input: D D D D
Decoded Word: aaaa
Suggestions:
1. cat
2. cop
3. block
4. clap
5. hat
Select the correct word (1-5), or press Enter to skip: 1
Learned correction: cat
```