

## Scholarship Eligibility Engine

### Errors and Solutions Report

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#### 1. Indentation Error

##### Error

The statements inside the while loop were not indented properly.

##### Problem

Python uses indentation to define code blocks. Without indentation, Python cannot understand which statements belong to the loop.

##### Solution

All statements inside while must be indented equally.

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#### 2. Incorrect IF–ELIF–ELSE Structure

##### Error

if, elif, and else blocks were written without indentation.

##### Problem

Conditions must contain properly aligned code blocks; otherwise Python throws an IndentationError.

##### Solution

Indent all statements under if, elif, and else.

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#### 3. Loop Counter Placement

##### Error

`i = i + 1` was placed outside the loop logic.

##### Problem

If the counter is not updated inside the loop, the loop may run infinitely or behave incorrectly.

##### Solution

Place `i = i + 1` inside the while loop.

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#### **4. Missing Colon (:)**

##### **Error**

`if percentage > 100`

##### **Problem**

Python requires a colon `:` after conditional statements.

##### **Solution**

`if percentage > 100:`

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#### **5. Block Structure Rule Violation**

##### **Error**

Python blocks were not clearly separated.

##### **Problem**

Python depends on indentation instead of brackets `{}` like other languages.

##### **Solution**

Maintain consistent indentation (usually 4 spaces).

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#### **Final Outcome After Fixing Errors**

- Program runs successfully
- Student eligibility calculated correctly
- Percentage displayed properly
- No syntax or indentation errors