

Scholarship Eligibility Engine

Errors and Solutions Report

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.

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.

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.

4. Missing Colon (:)

Error

```
if percentage > 100
```

Problem

Python requires a colon : after conditional statements.

Solution

```
if percentage > 100:
```

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).

Final Outcome After Fixing Errors

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