

Attendance Analyzer Program

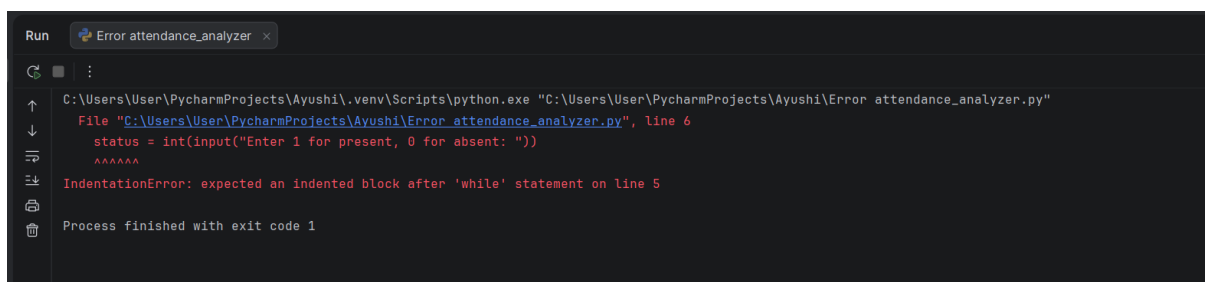
Aim:

To write a Python program to calculate attendance percentage and check eligibility for the exam.

Error code:

```
print("Attendance Analyzer")
days = int(input("Enter total days: "))
i = 1
present = 0
while i <= days:
    status = int(input("Enter 1 for present, 0 for absent: "))
    if status == 1:
        present = present + 1
    elif status == 0:
        present = present
    else:
        print("Invalid entry")
    i = i + 1
percentage = present * 100 / days
print("Attendance %:", percentage)
if percentage >= 75:
    print("Allowed for exam")
else:
    print("Not allowed")
if percentage > 100:
    print("Error in data")
```

Output

A screenshot of a Python IDE window titled "Error attendance_analyzer". The code editor shows the same Python code as in the previous block. A red error message is displayed: "IndentationError: expected an indented block after 'while' statement on line 5". The error points to the line where the status is input. Below the error message, it says "Process finished with exit code 1".

```
Run Error attendance_analyzer x
C:\Users\User\PycharmProjects\Ayushi\.venv\Scripts\python.exe "C:\Users\User\PycharmProjects\Ayushi\Error attendance_analyzer.py"
File "C:\Users\User\PycharmProjects\Ayushi\Error attendance_analyzer.py", line 6
    status = int(input("Enter 1 for present, 0 for absent: "))
    ^^^^^^^
IndentationError: expected an indented block after 'while' statement on line 5
Process finished with exit code 1
```

List of Errors:**1) Indentation Error**

- The statements inside while loop are not indented.
- The statements inside if, elif, and else are not indented.
- Python requires proper indentation.

2) Missing Closing Bracket

- `print("Attendance %:", percentage`
- Closing `)` bracket is missing.

It should be:

- `print("Attendance %:", percentage)`

3) Missing Colon (:) After else

- `else`
- Colon is missing.

It should be:

- `else:`

4) Logical Placement Issue

- `if percentage > 100:`
- This condition should ideally be checked before calculating or printing results because percentage cannot be more than 100 if inputs are correct.

5) Unnecessary Statement

- `present = present`
- This line does nothing. It is unnecessary and can be removed.

6) No Input Validation

- If user enters anything other than 1 or 0, it only prints "Invalid entry" but still counts the day.
- It may give wrong percentage

Corrected Code:

```
print("Attendance Analyzer")

days = int(input("Enter total days: "))
i = 1
present = 0

while i <= days:
    status = int(input("Enter 1 for present, 0 for absent: "))

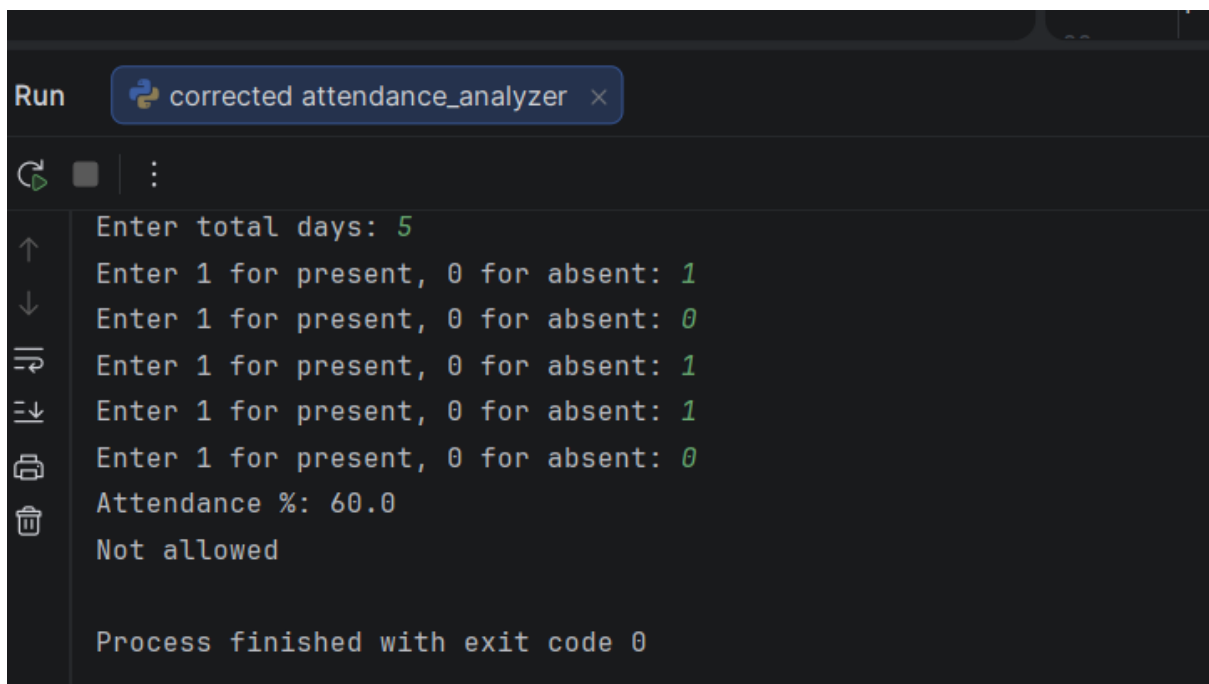
    if status == 1:
        present = present + 1
    elif status == 0:
        present = present
    else:
        print("Invalid entry")

    i = i + 1

percentage = present * 100 / days
print("Attendance %:", percentage)

if percentage >= 75:
    print("Allowed for exam")
else:
    print("Not allowed")

if percentage > 100:
    print("Error in data")
```

Output

The screenshot shows a terminal window with a dark background. At the top, there's a tab labeled 'Run' and a button with a Python logo and the text 'corrected attendance_analyzer x'. Below the tab, there are icons for running, stopping, and refreshing. The terminal output is as follows:

```
Enter total days: 5
Enter 1 for present, 0 for absent: 1
Enter 1 for present, 0 for absent: 0
Enter 1 for present, 0 for absent: 1
Enter 1 for present, 0 for absent: 1
Enter 1 for present, 0 for absent: 0
Attendance %: 60.0
Not allowed

Process finished with exit code 0
```