With ChatGPT as the LLM

-A BNF created by him-

Could you create a BNF, in the form of a mini-language, which has the purpose of helping teachers to check the final situation for each student at the end of the semester.

```
BNF Grammar
                                                                           (7) Copy code
                ::= { <student_record> }
 <student_body> ::= <name> <courses> <attendance> <remarks>
 <student_id> ::= <identifier>
 <name>
                ::= "courses:" "{" { <course_record> } "}"
 <courses>
 <course_record> ::= <course_name> ":" <grade>
 <course_name> ::= <identifier>
               ::= <letter_grade> | <numeric_grade>
 <grade>
 <letter_grade> ::= "A" | "B" | "C" | "D" | "F"
 <numeric_grade> ::= <digit> { <digit> } [ "." <digit> { <digit> } ]
 <attendance> ::= "attendance:" <percentage>
                 ::= <digit> { <digit> } "%"
 <percentage>
 <remarks>
               ::= '"' { any_character_except_quote } '"'
 <letter>
```

Samples:

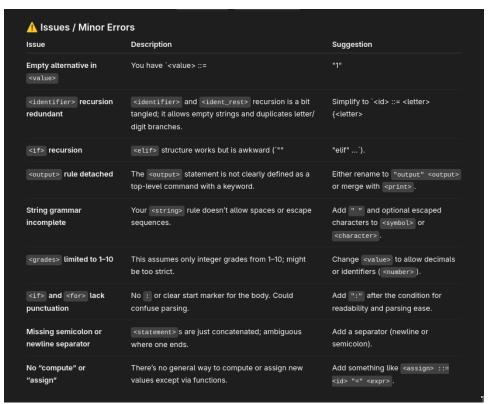
```
sfs
                                                                             🗇 Copy code
student S001 {
   name: "Alice Smith"
   courses: {
       Math: A
       History: 85.5
       Physics: B
    attendance: 92%
    remarks: "Excellent performance overall"
student S002 {
   name: "Bob Johnson"
   courses: {
       Math: C
       History: 70
       Physics: B
    attendance: 78%
    remarks: "Needs improvement in Math"
```

Changes into json like format, good for keeping track of all details, but there is no way to calculate the student grade / attendance track, you have to correctly put it.

-Checking for validation / improvement-Prompt (It also says to create the bnf by himself, but he mostly copied mine, also forgot to put the bnf in that prompt so I did afterward):

I created the following bnf, in the form of a mini-language, which has the purpose of helping teachers to check the final situation for each student at the end of the semester, could you do the following 2 things, first, try to generate one on your own, just by the idea that I have provided you, and second, check mine to see if i have any errors, or small things that I might have forgotten. And actually even a third thing, suggest improvements to it. Here is the bnf

Issues found



I did have an empty alternative in value

```
3 < value > ::= | "1" | "2" | "3" | "4" | "5" | "6" | "7" | "8" | "9" | "10"
```

In examples I use "output x" or "output 'word' but in the bnf forgot the keyword

Improvements

Added the assign statement

```
3. Allow general expressions in assignment or conditionals.

Add:

bash

<a href="mailto:assign">assign">assignment or conditionals.</a>

Copy code

<a href="mailto:assign">assign">assign">assign">assign">assign</a>
```

Added comments by suggestion

```
6. Add comments (useful for a teacher scripting language):

go

<comment> ::= "#" <string_content>
```