Grand Challenge

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Work Flow

- Python COBOL Generator.
- How to use
- Result

Python COBOL Generator

- In this section, I built a simple Cobol code generator with python.
- Use python String Template to achieve the goal.

- 1. First import the COBOL and define the identification_divison and environment_division.
- 2. The function toPrint() can display the current file at the console.

```
6 c.toPrint()
```

- 3. Define the data_division fields, files[0] is the InputName we defined in environment_division; files[1] is the OutputName.
- 4. For files that have 05 level fields we can use addChild() function to add the field.

5. Define the work station variables, alike the last step

- 6. Add a function at the procedure_division.
- 7. First give a functionName, the function are stored in a dictionary.
- 8. Then use the functionName and addStep with keyworks(up to 4).

9. Save the file.

```
c.save2File(fileName="cobolFile")
```

Result

The generated code are save in a .cob file.

```
☐ cobolFile.cob 2021/1/15 10:20 COB 文件 1 KB
```

```
IDENTIFICATION DIVISION.
 PROGRAM-ID.
                123.
                chen.
 AUTHOR.
 ENVIRONMENT DIVISION.
INPUT-OUTPUT SECTION.
FILE-CONTROL.
     SELECT PRT-LINE
                      ASSIGN TO PRTLINE.
     SELECT PRT-DONE
                      ASSIGN TO PRTDONE.
HDATA DIVISION.
FILE SECTION.
FD InputName RECORD CONTAINS 80 CHARACTERS RECORDING MODE F.
D1 PRT-REC
                    PIC X(80) VALUE SPACES.
FD OutputName RECORD CONTAINS 80 CHARACTERS RECORDING MODE F.
DO1 PRT-REC-DONE.
     05 PRT-DATE
                       PIC X(8) VALUE SPACES.
     05 FILLER
                       PIC X(1) VALUE SPACES.
-WORKING-STORAGE SECTION.
fieldName4.
     PGM-COUNT
                      PIC 9 (05).
□01 YYYYMMDD
                      PIC 9(8).
□ PROCEDURE DIVISION.
A000-START.
     DISPLAY 'HELLO WORLD'
              OUTPUT
                      PRT-LINE
```

Thank you