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# 1 Introduction

## 1.1 Background

Greetings! This is a template for XJTLU coursework by  $\text{\LaTeX}$ . [1] I make this template because of the excellent work of *Dr.Cheng* and the EEE students of *XJTLU*. *Dr.Cheng* has received his PhD degree in Liverpool University and now works in *XJTLU*. [2] The repository above was also used for his doctoral thesis.

Kind as him, *Dr.Cheng* shared his template on *Github* for every *XJTLUer*. Meanwhile, he also worked on a tutorial about how to use  $\text{\LaTeX}$ . (It's a pity that his blog is now closed.) Luckily, I found this buried treasure today(November 13, 2023).

## 1.2 Why I make this template

Inspired by his *Open Source Spirit*, and considering his work is too sophisticated, I decided to make a **simpler template** for XJTLU coursework, which is not so official but still useful.

## 2 What's in this template

### 2.1 Pre-defined Commands

This template provides a command *picHere* to insert pictures, with 4 parameters:

1. “*path*”: the path of the picture
2. “*width*”: the width of the picture(percentage of the text width is recommended)
3. “*caption*”: the caption of the picture
4. “*label*”: the label of the picture(used for reference)

For example, we can use “`\picHere{pics/TC.png}{0.5\textwidth}{TC Campus}{TC}`” to insert a picture like this:



Figure 1: TC Campus

This template also provides a command *picHereSimple* to insert pictures, with only the first 2 parameters. This one is used for pictures without caption and label. (e.g . the cover picture)

### 2.2 Global Settings

At the beginning of this file, there are some parameters that can be changed to customize the report.

#### 2.2.1 Basic Information

Some “Basic Information” like *moduleName*, *authorName* and “Picture Paths” like *XJTLU*, *coverPic*, can be set easily globally.

#### 2.2.2 Adjustment of the Layout

*titleVerticalOffset* can be set to adjust the vertical offset of the title. Also, the width of the header and footer line is editable. Moreover, the contents of *Left*, *Center* and *Right* in the header and footer can also be changed easily by modifying the corresponding parameters.

### 2.2.3 Boolean Parameters

This is my favorite part. This template provides some boolean parameters to customize the style of the report. Currently, you can choose whether to use *MS Word Margin* and *Header and Footer*.

For example, if you want a report with *MS Word Margin* and *Header and Footer*, just keep the “\isMSWordMargintrue” and “\isHeaderFootertrue”.(They are default settings)

If you want to disable any of them, just change the postfix “true” to “false”, e.g. “\isMSWordMargintrue” → “\isMSWordMarginfalse”.

## 2.3 Beautiful Code

A color palette for code is defined in *settings.sty*, which is the style I used in my *VS Code*.

### 2.3.1 hello.cpp

```
1 #include <iostream>
2
3 int main()
4 {
5     std::cout << "Hello World!" << std::endl;
6     return 0;
7 }
```

Listing 1: hello.cpp

### 2.3.2 multiplication.py

```
1 # 9*9 multiplication table
2
3 ROW = 9
4 COL = 9
5
6 for i in range(1, ROW+1):
7     for j in range(1, COL+1):
8         print(f"{i}*{j}={i*j}", end="\t")
9     print("")
```

Listing 2: multiplication.py

Note: A parameter “language” in the command “\lstset” is used to specify the language of the code. **Please change it to the language you use.** Wrong type of language may cause some error of the the key word color.

### 3 Appendix

Pictures used in this report:

1. The *XJTLU* Logo is from the *Github* repository of *Dr.Cheng*
2. The cover picture is the avator of author, which is made by *Stable Diffusion*. (I call her *Chicarlet*.)
3. The picture of *TC Campus* is from the official website of *XJTLU*

These pictures are used for **academic purpose only**. Many thanks to the authors.

## References

- [1] SiriusAhu, “An Example Paper,” vol. 13, pp. 123–456, Nov 2023.
- [2] SiriusAhu, “An Example Paper,” vol. 13, pp. 123–456, Nov 2022.