## timesheet calculator

Import os and sys modules

In order to avoid errors in reading the path of the xls file after the exe is generated, use the function" os.path.dirname(os.path.realpath(sys. executable)" to read the root directory where the py,exe file is located.

```
import xlrd
import xlwt
import tkinter as tk
import os
import sys

filepath = os.path.join(os.path.dirname(os.path.realpath(sys.executable)),'timesheet_input.xls')
```

Define the main function

Use sys.argv[] Reads the incoming parameters at runtime:

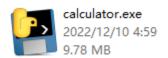
Use the pyinstaller tool to generate an executable file exe,

Enter the command in the shell: "pyinstaller -F.\calculator.py"

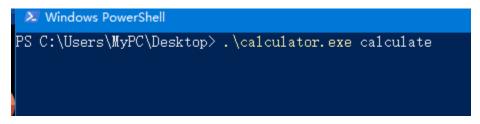
```
Windows Powershell

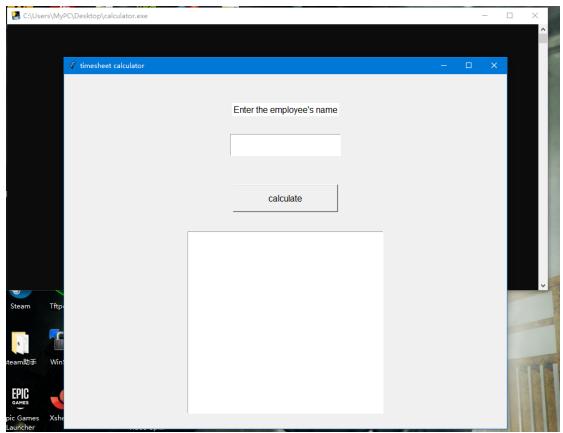
C:\Users\MyPC\Desktop\研究生2\系统理论\1> pyinstaller -F .\calculator.py
INFO: PyInstaller: 5.7.0
INFO: PyInstaller: 5.7.0
INFO: PyInstaller: 5.7.0
INFO: PyIntorm: Windows-10-10.0.19045-SP0
INFO: Platform: Windows-10-10.0.19045-SP0
INFO: UPX is not available.
INFO: Extending PYIHONPATH with paths
:\\Users\MyPC\\Desktop\\研究生2\\系统理论\1']
6 INFO: checking Analysis
7 INFO: checking Analysis 6
7 INFO: Initializing module dependency graph...
1 INFO: Initializing module dependency graph...
5 WARNING: Several hooks defined for module 'numpy'. Please take care they do not conflict.
8 INFO: Analyzing base_library.zip ...
3 INFO: Loading module hook 'hook-heapq.py' from 'C:\Program Files\Python311\\Lib\\site-packages\PyInstaller\hooks'.
 .
181 INFO: Loading module hook 'hook-encodings.py' from 'C:\\Program Files\\Python311\\Lib\\site-packages\\PyInstal1er\\hoo
 ...
9307 INFO: Caching module dependency graph...
9432 INFO: running Analysis Analysis-00.toc
9439 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by C:\Program Files\Python311\python.exe
9644 INFO: Analyzing C:\Users\MyPC\Desktop\研究生2\系统理论\1\calculator.py
10485 INFO: Processing module hooks...
10489 INFO: Loading module hook 'hook-_tkinter.py' from 'C:\\Program Files\\Python311\\Lib\\site-packages\\PyInstaller\\hooke'
   O711 INFO: checking Tree
0711 INFO: Building Tree because Tree-00.toc is non existent
0711 INFO: Building Tree because Tree-00.toc
0859 INFO: checking Tree
0859 INFO: building Tree because Tree-01.toc is non existent
0860 INFO: Building Tree because Tree-01.toc
0850 INFO: building Tree because Tree-01.toc
0850 INFO: Building Tree because Tree-02.toc
0850 INFO: Building Tree because Tree-01.toc
0850 INFO: Building Tree Tree-02.toc
0850 INFO: Building Tree Tree-01.toc
0850 INFO: Building Tree Tree-02.toc
0850 INFO: Building Tree Tree-01.toc
0850 INFO: Building Tree Tree-01.toc
0850 INFO: Building Tree Tree-02.toc
0850 INFO: Building Tree Tree-01.toc
0850 INFO: Building Tree Tree-01.toc
0850 INFO: Building Tree Tree-02.toc
0850 INFO: Building Tree Tree-01.toc
0850 INFO: Building Tree
0850 INFO: Building Tree
0850 INFO:
 INFO: Warnings written to C:\Users\MyPC\Desktop\研究生2\系统理论\1\build\calculator\warn-calculator.txt
INFO: Graph cross-reference written to C:\Users\MyPC\Desktop\研究生2\系统理论\1\build\calculator\xref-calculator.html
```

## Result:

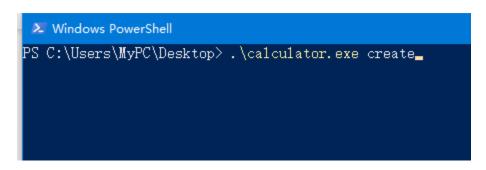


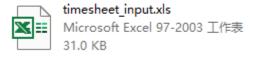
Substitute the parameter "calcuate" to run, The calculator GUI interface will be started directly, which is equivalent to double-clicking to run:





Substitute the parameter "create" to run, A blank timetable xls file will be created automatically:





If you enter the wrong parameters at runtime, there will be the following prompt:

## Windows PowerShell PS C:\Users\MyPC\Desktop> .\calculator.exe 123456 The parameter is wrong, please enter 'create' to create the timesheet PS C:\Users\MyPC\Desktop>