

Python

Excel

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2 29

- **Python** Python 3.7+
- Windows/macOS/Linux
- **exe** Windows

exe

1. exe
2. exe
3. exe

Python

```
#  
pip install -r requirements.txt
```

- YYYY M .xlsx

- - 2025 6 .xlsx
- - 2024 2 .xlsx

Excel

Excel

1.

-
- 5-6

2.

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- 2-3
- ('', '1'), ('', '2')

exe

#

.exe

#

exe

Python

```
#  
python create_new_attendance_sheet.py
```

exe

```
#  
    .exe --input "        -                2025 6 .xlsx"  
  
#  
    .exe --output "                .xlsx"  
  
#  
    .exe --year 2025 --month 6  
  
#  
    .exe --test  
  
#  
    .exe --help
```

Python

```
#  
python create_new_attendance_sheet.py --input "        -                2025 6 .xlsx"  
  
#  
python create_new_attendance_sheet.py --output "                .xlsx"  
  
#  
python create_new_attendance_sheet.py --year 2025 --month 6  
  
#  
python create_new_attendance_sheet.py --test  
  
#  
python create_new_attendance_sheet.py --help
```

--input	-i		--input "data.xlsx"
--output	-o		--output "result.xlsx"
--year	-y		--year 2025
--month	-m		--month 6
--test	-t		--test
--help	-h		--help

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- $<$
- $-$
- 08:30 18:30 $\rightarrow 10$

- $>$
- $(24:00 - \quad) +$
- $22:00 \quad 06:00 \rightarrow (24-22) + 6 = 8$

1

exe

```
# exe
# .exe
```

```
# 2025 6 .xlsx
```

Python

```
#
#
python create_new_attendance_sheet.py
```

```
# 2025 6 .xlsx
```

2

exe

```
#  
        .exe \  
--input "      -      2025 6 .xlsx" \  
--output "      .xlsx"
```

Python

```
#  
python create_new_attendance_sheet.py \  
--input "      -      2025 6 .xlsx" \  
--output "      .xlsx"
```

3

exe

```
#  
        .exe \  
--year 2025 \  
--month 6 \  
--input "my_data.xlsx"
```

Python

```
#  
python create_new_attendance_sheet.py \  
--year 2025 \  
--month 6 \  
--input "my_data.xlsx"
```

1.

- YYYY M .xlsx

2. **Excel**

Excel
Excel " " " "

3.

1-12

exe

.exe --test

Python

python create_new_attendance_sheet.py --test

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AttendanceSheet/

```
|— create_new_attendance_sheet.py  #
|— requirements.txt                #
|— README.md                       #
|— example_usage.py                #
|— -                               2025 6 .xlsx #
└— 2025 6                          .xlsx      #
```

exe

```
/
|— .exe                            #
|— -                               2025 6 .xlsx #
└— 2025 6                          .xlsx      #
```

- pandas
- openpyxl Excel
- numpy
- argparse

exe

1. GitHub Releases exe
2. exe
3. exe

- exe Windows
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- exe

1. **exe**

- Windows
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2.

- exe
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3.

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- main()
- create_new_attendance_sheet()
- calculate_work_hours()
- test_time_calculation()
- find_source_file()

1. create_new_attendance_sheet()
2. main()
3. test_time_calculation()

```
python build_exe.py
```

PyInstaller

```
# PyInstaller
```

```
pip install pyinstaller
```

```
# Windows exe Windows
```

```
pyinstaller --onefile --name " " " create_new_attendance_sheet.py
```

- **Windows** .exe Windows
 - **macOS** macOS Windows
 - **Linux** Linux Windows
- Windows Windows exe

GitHub CI

GitHub Actions

Windows exe

1.

```
python scripts/release.py patch #
```

2.

- GitHub Actions
- "Build Windows Executable"
- "Run workflow"

3.

- Releases
- Actions

