

Code Lines Checker

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功能

单文件

统计单文件的行数等信息，如果是python文件，则提供作业要求的信息，如果是其他文件，则只输出总行数。结果输出到 `result.json`

文件夹

获取文件夹内所有的（包括子文件夹）的py文件，并按照作业要求统计相关信息，输出到 `result.json`

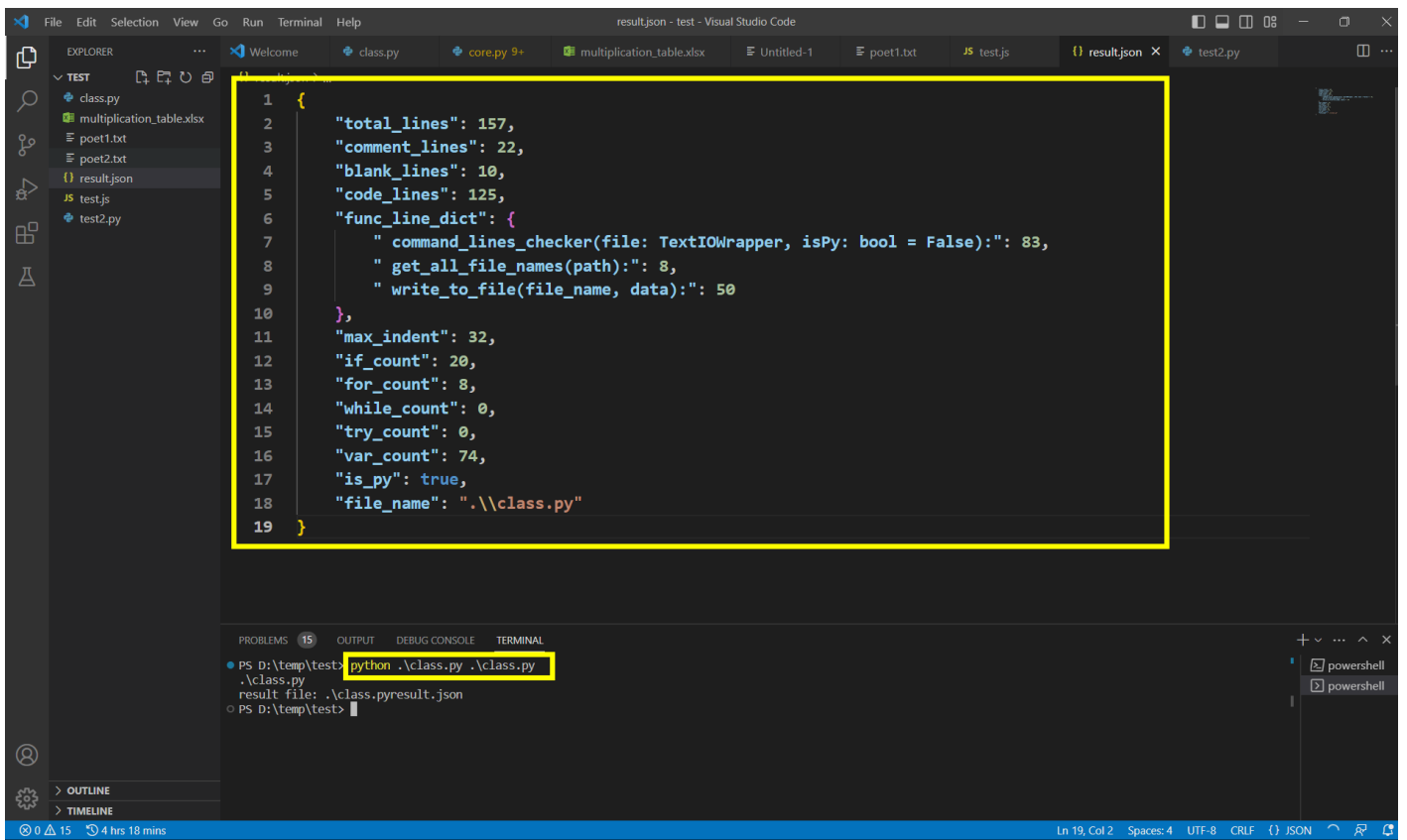
Get Start

在命令行参数加上想要统计的文件或文件夹的路径。

注意！文件夹后必须加上"\"，并且理论上统计文件夹功能目前仅支持Windows端。

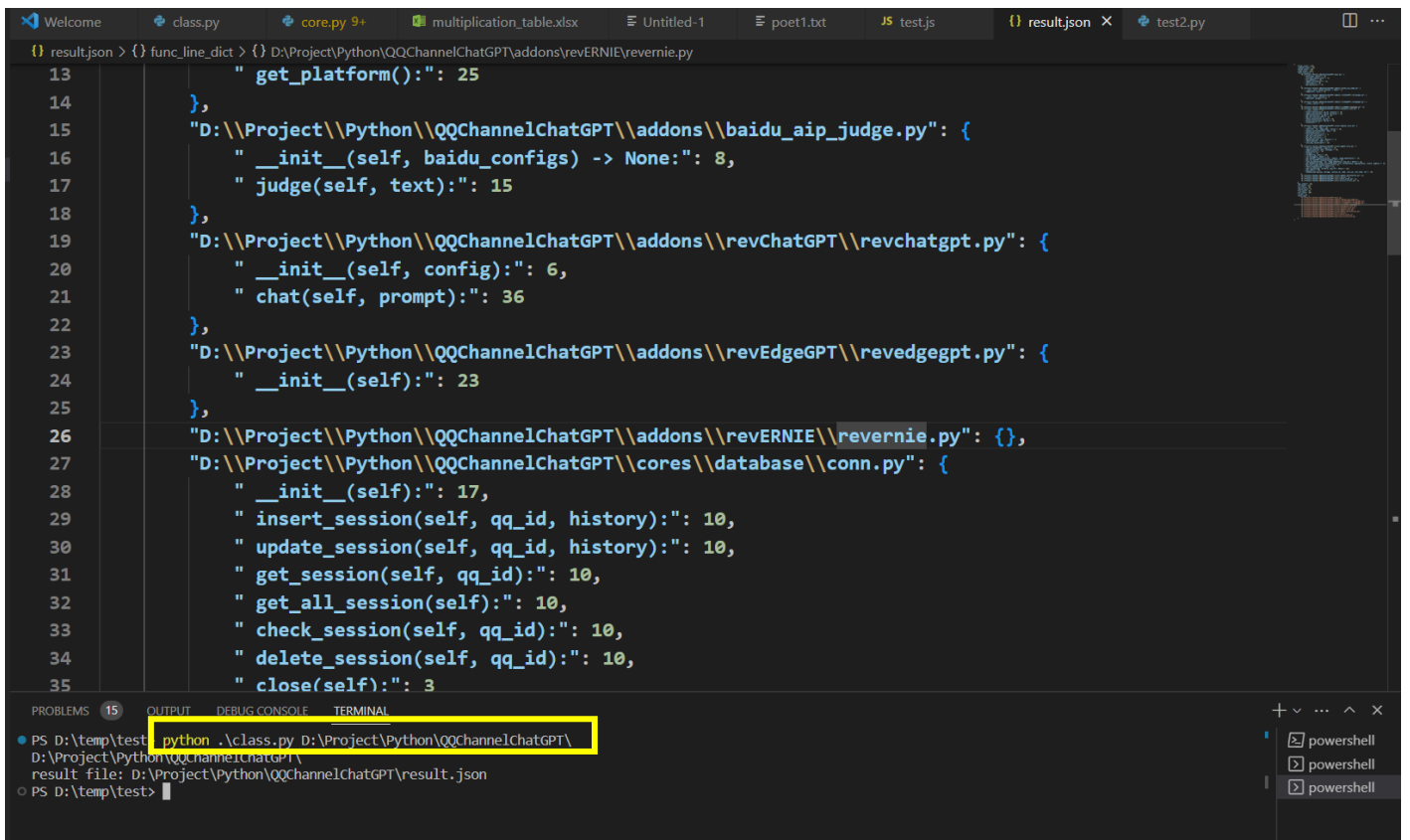
Demo

单文件



文件夹

以我的一个项目的文件夹为例



```
{
  "total_lines": 1745,
  "comment_lines": 153,
```

```

"blank_lines": 150,
"code_lines": 1442,
"func_line_dict": {
    "D:\\Project\\Python\\QQChannelChatGPT\\main.py": {
        "main(loop, event)": 19,
        "priver_choser(cfg)": 11,
        "hot_update()": 60,
        "update_version(ver)": 31,
        "check_env()": 29,
        "get_platform()": 25
    },
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\baidu_aip_judge.py": {
        "__init__(self, baidu_configs) -> None": 8,
        "judge(self, text)": 15
    },
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\revChatGPT\\revchatgpt.py": {
        "__init__(self, config)": 6,
        "chat(self, prompt)": 36
    },
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\revEdgeGPT\\revedgegpt.py": {
        "__init__(self)": 23
    },
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\revERNIE\\revern timer.py": {},
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\database\\conn.py": {
        "__init__(self)": 17,
        "insert_session(self, qq_id, history)": 10,
        "update_session(self, qq_id, history)": 10,
        "get_session(self, qq_id)": 10,
        "get_all_session(self)": 10,
        "check_session(self, qq_id)": 10,
        "delete_session(self, qq_id)": 10,
        "close(self)": 3
    },
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\openai\\core.py": {
        "__init__(self, cfg)": 19,
        "chat(self, req, image_mode = False)": 29,
        "handle_switch_key(self, req)": 30,
        "getConfigs(self)": 3,
        "save_key_record(self)": 4,
        "get_key_stat(self)": 2,
        "get_key_list(self)": 4,
        "append_key(self, key, sponsor)": 6,
        "check_key(self, key)": 17,
        "init_key_record(self)": 28
    },
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\qqbot\\core.py": {
        "new_sub_thread(func, args=())": 22,
        "toggle_count(at: bool, message)": 20,
        "dump_history()": 24,
        "upload()": 38,
        "initBot(cfg, prov)": 145,
        "run_bot(appid, token)": 9,
        "get_chatGPT_response(context, request, image_mode=False)": 23,
        "get_rev_ChatGPT_response(prompts_str)": 32,
        "send_qq_msg(message, res, image_mode=False, msg_ref = None)": 18,
        "get_prompts_by_cache_list(cache_data_list, divide=False, paging=False, size=5, page=1)": 1
        "get_user_usage_tokens(cache_list)": 9,
        "check_frequency(id) -> bool": 21,
        "oper_msg(message, at=False, msg_ref = None)": 253,
        "get_stat()": 28,
        "command_oper(qq_msg, message, session_id, name, user_id, user_name, at)": 152
    }
}

```

```

    },
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\qqbot\\personality.py": {},
    "D:\\Project\\Python\\QQChannelChatGPT\\util\\log.py": {},
    "D:\\Project\\Python\\QQChannelChatGPT\\util\\unfit_words.py": {},
    "D:\\Project\\Python\\QQChannelChatGPT\\util\\errors\\errors.py": {}
},
"max_indent": 32,
"if_count": 114,
"for_count": 20,
"while_count": 6,
"try_count": 36,
"var_count": 494,
"is_py": true,
"file_name": [
    "D:\\Project\\Python\\QQChannelChatGPT\\main.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\baidu_aip_judge.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\revChatGPT\\revchatgpt.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\revEdgeGPT\\revedgegpt.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\addons\\revERNIE\\revern timer.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\database\\conn.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\openai\\core.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\qqbot\\core.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\cores\\qqbot\\personality.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\util\\log.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\util\\unfit_words.py",
    "D:\\Project\\Python\\QQChannelChatGPT\\util\\errors\\errors.py"
]
}

```

解释

Key解释

key	解释
total_lines	总行数
comment_lines	注释行数
blank_lines	空行数
code_lines	有效代码行数
func_line_dict	每个函数的行数
max_indent	最大缩进
if_count	if数
for_count	for数
while_count	while数
try_count	try数

key	解释
var_count	变量数
is_py	是否是py文件
file_name	文件名

关键代码解释

```
if __name__ == '__main__':
    # 得到参数
    args = sys.argv[1:]
    for i in args:
        print(i)
        # 检查是否是文件夹，如果是的话，则只统计.py文件，且得到文件夹下（包含子文件夹）的所有py文件
        if i.endswith('\\'):
            # 是文件夹
            total_list = [] # 用于存放所有文件的统计结果
            # 得到文件夹下的所有文件
            file_names = get_all_file_names(i)
            for j in file_names:
                if j.endswith('.py'):
                    with open(j, 'r', encoding='utf-8') as f:
                        # print("file name: " + f.name)
                        total_list.append(command_lines_checker(f, True))
            # 汇总结果
            total_dict = {}
            max_intent = 0
            for k in total_list:
                for key, value in k.items():
                    if key not in total_dict:
                        # 初始化键值对和一些特判
                        if key == 'func_line_dict':
                            total_dict['func_line_dict'] = {
                                k['file_name']: value
                            }
                        elif key == 'file_name':
                            total_dict['file_name'] = [value]
                        elif key == 'is_py':
                            total_dict['is_py'] = True
                        elif key == 'max_indent':
                            if value > max_intent:
                                max_intent = value
                            total_dict['max_indent'] = max_intent
                        else:
                            total_dict[key] = value
                    else:
                        # 汇总和一些特判，如max_indent：取最大值而不是相加
                        if key == 'func_line_dict':
                            total_dict['func_line_dict'][k['file_name']] = value
                        elif key == 'file_name':
                            total_dict['file_name'].append(value)
                        elif key == 'is_py':
                            pass
                        elif key == 'max_indent':
                            if value > max_intent:
```



```

        if indent > max_indent:
            max_indent = indent

    # 检查if
    if if_re.match(i):
        if_count += 1
    # 检查for
    if for_re.match(i):
        for_count += 1
    # 检查while
    if while_re.match(i):
        while_count += 1
    # 检查try
    if try_re.match(i):
        try_count += 1
    # 检查变量定义
    if var_re.match(i):
        var_count += 1

    if _current_func is not None:
        _current_func_line += 1

    if _current_func is not None:
        func_line_dict[_current_func] = _current_func_line
res = {}
res['total_lines'] = total_lines
res['comment_lines'] = comment_lines
res['blank_lines'] = blank_lines
res['code_lines'] = total_lines - comment_lines - blank_lines
res['func_line_dict'] = func_line_dict
res['max_indent'] = max_indent
res['if_count'] = if_count
res['for_count'] = for_count
res['while_count'] = while_count
res['try_count'] = try_count
res['var_count'] = var_count
res['is_py'] = isPy
res['file_name'] = file.name
return res

```

```

def get_all_file_names(path):
    # 得到文件夹下的所有文件路径
    file_paths = []
    for root, dirs, files in os.walk(path):
        # os.walk()返回目录路径，路径下所有子目录，路径下所有非目录子文件
        for file in files:
            file_paths.append(os.path.join(root, file))
    return file_paths

```