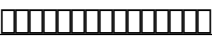

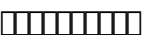





Python `if __name__ == '__main__':`






-  _____
-  _____
-  _____
-  _____
-  _____
-  _____

[illegible][illegible]

- [illegible]

```
if __name__ == '__main__':
```



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Python 变量名 `__name__`

- 变量名 `__name__` 的值是 `"__main__"`
- 变量名 `__name__` 的值是 `__name__` 的值 `.py`

```
# test.py
print(f"__name__: {__name__}") # 输出 __name__

def main():
    print("test.py")

if __name__ == '__main__':
    print("test.py")
    main()
```

1. 运行 `test.py`

```
$ python test.py
__name__: __main__
test.py
test.py
```

2. 运行 `import_test.py`

```
# import_test.py
import test # 输出 test
```

```
$ python import_test.py
__name__: test
```



```
# 文件      math_util.py
def factorial(n):
    return 1 if n == 0 else n * factorial(n-1)

def test():
    print("文件      :")
    print(factorial(5)) # 120

if __name__ == '__main__':
    test() # 文件
```



```
# main_app.py
from math_util import factorial

print(factorial(10)) # 3628800
```

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1. `__name__` is a built-in variable that contains the name of the module in which the code is being executed.
2. `__name__ == "__test.py"` checks if the current module is the test module.
3. `main()` calls the `main` function.



```
if __name__ == '__main__':  
    import sys  
    if len(sys.argv) > 1:  
        print(f"{} : {sys.argv[1:]}")  
    else:  
        print("{}")
```