

If `__name__` “main” in python

```
if __name__=="__main__": in python
```

The `if __name__=="__main__"` idiom is a common pattern used in Python Scripts To

Determine whether the script is being run directly or being imported as a module into another script.

In python the `__name__` variable is a built in variable that is automatically set to the name of the current module. When the script is imported as a module into another script the `__name__` variable is set to the name of the module.

Here's an example of how the `if __name__=="__main__"` idiom can be used

Example:

```
def Welcome():  
    print("Hi guys welcome to my python program")  
  
if __name__=="__main__": # if we used if __name__=="__main__" #then it execute only  
one time  
    Welcome()
```

In this example the main function contains the code that should be run when the script is run directly. The if statement at the bottom checks whether the `__name__` variable is equal to `__main__`. If it is the main function is called.

Why is it useful

The idiom is useful because it allows you to reuse code from a script by importing module into another script without running the code in the original script. Consider the following script.

```
def Welcome():  
    print("Hi guys welcome to my python program")
```

```
if __name__=="__main__": # if we used if __name__=="__main__" #then it execute only
one time
    Welcome()
```

Is it a necessity?

It's important to note that the if `__name__ == "__main__"` idiom is not required to run a python script. You can still run a script without by simply calling the functions or running the code you want to execute directly. However the if `__name__ == "__main__"` idiom can be a useful tool for organizing and separating code that should be run directly from code that should be imported and used as a module.

In summary the if `__name__ == "__main__"` idiom is a common pattern used in Python script to determine whether the script being run directly or being imported as a module into another script. It allows you to reuse code from a script by importing it as a module into another script, without running the code in the original script.

```
print(dir(pandas))
```

Source Code

```
Main.py
import munawar
print(__name__)

munawar.Welcome()

munawar.py
def Welcome():
    print("Hi guys welcome to my python program")
print(__name__)
if __name__=="__main__": # if we used if __name__=="__main__" #then it execute only
one time
    Welcome()
```

Thank You