

- description :
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- lastupdate : 2020-06-25



calculations.py

```
def add(l,r):  
    return l + r  
  
def mul(l,r):  
    return l * r  
  
def div(l,r):  
    return l/r
```

fibonacci.py

```
class Fibonacci:  
    def __init__(self, title="fibonacci"):  
        self.title = title  
  
    def fib(n):  
        a, b = 0, 1  
        while a < n:  
            print(a, end=' ')  
            a, b = b, a + b  
        print()
```

```
def fib2(n):  
    result = []  
    a, b = 0, 1  
    while a < n:  
        result.append(a)  
        a, b = b, a + b  
    return result
```

prints.py

```
def prt1():  
    print("I'm Niceboy!")  
  
def prt2():  
    print("I'm Goodboy!")  
  
#  
#  
if __name__ == "__main__":  
    prt1()  
    prt2()
```

```
# Section08  
#  
#  
# 1  
#  
# .. :  
# . :  
  
# 1( )  
print("#==== 1====")  
from pkg.fibonacci import Fibonacci  
  
Fibonacci.fib(100)  
  
print("ex1 : ", Fibonacci.fib2(200))  
print("ex1 : ", Fibonacci().title)  
print()  
  
# 2( )  
print("#==== 2====")  
from pkg.fibonacci import *
```

```

Fibonacci.fib(300)

print("ex2 : ", Fibonacci.fib2(400))
print("ex2 : ", Fibonacci().title)
print()

# 3( )
print("#==== 3====")
from pkg.fibonacci import Fibonacci as fb

fb.fib(500)

print("ex3 : ", fb.fib2(600))
print("ex3 : ", fb().title)
print()

# 4( ): Alias
print("#==== import 1====")
import pkg.calculations as c

print("ex4 : ", c.add(10,10))
print("ex4 : ", c.mul(10,4))
print()

# 5( )
print("#==== import 2====")
from pkg.calculations import div as d

print("ex5 : ", int(d(100,10)))
print()

# 6
print("#==== import 3====")
import pkg.prints as p
import builtins # builtins import .

p.prt1()
p.prt2()
print(dir(p))
print(dir(builtins))
print()

```

```

#==== 1====
0 1 1 2 3 5 8 13 21 34 55 89

```

```
ex1 : [0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144]  
ex1 : fibonacci
```

```
#==== 2====  
0 1 1 2 3 5 8 13 21 34 55 89 144 233  
ex2 : [0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377]  
ex2 : fibonacci
```

```
#==== 3====  
0 1 1 2 3 5 8 13 21 34 55 89 144 233 377  
ex3 : [0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377]  
ex3 : fibonacci
```

```
#==== import 1====  
ex4 : 20  
ex4 : 6
```

```
#==== import 2====  
ex5 : 10
```

```
#==== import 3====  
I'm Niceboy!  
I'm Goodboy!  
['__builtins__', '__cached__', '__doc__', '__file__', '__loader__',  
'__name__', '__package__', '__spec__', 'prt1', 'prt2']  
['ArithmeticError', 'AssertionError', 'AttributeError', 'BaseException',  
'BlockingIOError', 'BrokenPipeError', 'BufferError', 'BytesWarning',  
'ChildProcessError', 'ConnectionAbortedError', 'ConnectionError',  
'ConnectionRefusedError', 'ConnectionResetError',  
'DeprecationWarning', 'EOFError', 'Ellipsis', 'EnvironmentError',  
'Exception', 'False', 'FileExistsError', 'FileNotFoundError',  
'FloatingPointError', 'FutureWarning', 'GeneratorExit', 'IOError',  
'ImportError', 'ImportWarning', 'IndentationError', 'IndexError',  
'InterruptedError', 'IsADirectoryError', 'KeyError', 'KeyboardInterrupt',  
'LookupError', 'MemoryError', 'ModuleNotFoundError', 'NameError', 'None',  
'NotADirectoryError', 'NotImplemented', 'NotImplementedError', 'OSError',  
'OverflowError', 'PendingDeprecationWarning', 'PermissionError',  
'ProcessLookupError', 'RecursionError', 'ReferenceError', 'ResourceWarning',  
'RuntimeError', 'RuntimeWarning', 'StopAsyncIteration', 'StopIteration',  
'SyntaxError', 'SyntaxWarning', 'SystemError', 'SystemExit', 'TabError',  
'TimeoutError', 'True', 'TypeError', 'UnboundLocalError',  
'UnicodeDecodeError', 'UnicodeEncodeError', 'UnicodeError',  
'UnicodeTranslateError', 'UnicodeWarning', 'UserWarning', 'ValueError',  
'Warning', 'WindowsError', 'ZeroDivisionError', '__build_class__',  
'__debug__', '__doc__', '__import__', '__loader__', '__name__',  
'__package__', '__spec__', 'abs', 'all', 'any', 'ascii', 'bin', 'bool',  
'breakpoint', 'bytearray', 'bytes', 'callable', 'chr', 'classmethod',  
'compile', 'complex', 'copyright', 'credits', 'delattr', 'dict', 'dir',  
'divmod', 'enumerate', 'eval', 'exec', 'exit', 'filter', 'float', 'format',  
'frozenset', 'getattr', 'globals', 'hasattr', 'hash', 'help', 'hex', 'id',
```

```
'input', 'int', 'isinstance', 'issubclass', 'iter', 'len', 'license',  
'list', 'locals', 'map', 'max', 'memoryview', 'min', 'next', 'object',  
'oct', 'open', 'ord', 'pow', 'print', 'property', 'quit', 'range', 'repr',  
'reversed', 'round', 'set', 'setattr', 'slice', 'sorted', 'staticmethod',  
'str', 'sum', 'super', 'tuple', 'type', 'vars', 'zip']
```

Tip

, [python](#), ,

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