

```
# Core 2 Web
# Funtion Assignment 1
# Write the following code given below and perform a dry run for the provided codes.
```

```
def add(x):
    def innner(y):
        return x*y
    return innner

if __name__=='__main__':
    add_3 =add(3)
    result=add_3(7)
    print(result)
```

➞ 21

```
def outer():
    def inner():
        return "Greetings from the inner function!"
    return inner()
if __name__=="__main__":
    result= outer()
    print(result)
```

➞ Greetings from the inner function!

```
def outer():
    def inner():
        return "This is the inner function."
    return inner
if __name__=='__main__':
    retObj = outer()
    retInner = retObj()
    print(retInner)
```

➞ This is the inner function.

```
def outer():
    def inner():
        return outer
    return inner
if __name__=='__main__':
    retObj = outer()
    retInner = retObj()
    print(retInner)
```

➞ <function outer at 0x7c596893f9c0>

```
def outer():
    def inner(outer):
        print(outer)
        return inner
    return inner(outer)
if __name__=="__main__":
    retObj = outer()
    print(retObj)
```

➞ <function outer at 0x7c59817493a0>  
<function outer.<locals>.inner at 0x7c596893cd60>

```
def outer():
    def inner1(a, b):
        print("In inner1")
        return a - b
    def inner2(obj):
        print("In inner2")
        print(obj)
        return inner2
    retInner1 = inner1(10, 4)
    retInner2 = inner2(retInner1)
    return retInner2
```

```
if __name__=="__main__":
    retObj = outer()
    print(retObj)
```

```
↗ In inner1
In inner2
6
<function outer.<locals>.inner2 at 0x7c596893d080>
```

```
def outer():
    def inner():
        return "Hello, Core2web!"
    return inner
    print("In Outer Function")
if __name__=="__main__":
    result = outer()()
    print(result)
```

```
↗ Hello, Core2web!
```

```
def outer():
    message = "I am the outer function."
    def inner():

        return message
    return inner
if __name__=="__main__":
    inner_function = outer()
    result = inner_function()
    print(result)
```

```
↗ I am the outer function.
```

```
def outer():
    count = 0
    def inner():
        nonlocal count
        count += 1
        return count
    return inner
if __name__=="__main__":
    counter = outer()
    print(counter())
    print(counter())
```

```
↗ 1
2
```

```
def outer(flag):
    def inner():
        return "This is true." if flag else "This is false."
    return inner
```

```
if __name__=="__main__":
    true_function = outer(True)
    false_function = outer(False)
    print(true_function())
    print(false_function())
```

```
↗ This is true.
This is false.
```

Start coding or [generate](#) with AI.

