Python

Global Variables

Global Variables

A variable that can be used by multiple functions

Declare Global

For a variable to be global, the variable has to be declared global and is the first statement of a function.

Try This

```
def sub1():
    z=10
    print('s1 ',z)
    z=z+1
    print('s2 ',z)
    z=z+1
    return
```

```
def main():
    x=1
    sub1()
    print('M1 ',x)
    x=x+2
    sub1()
    print('M2 ',x)
    x=x+2
    sub1()
main()
```

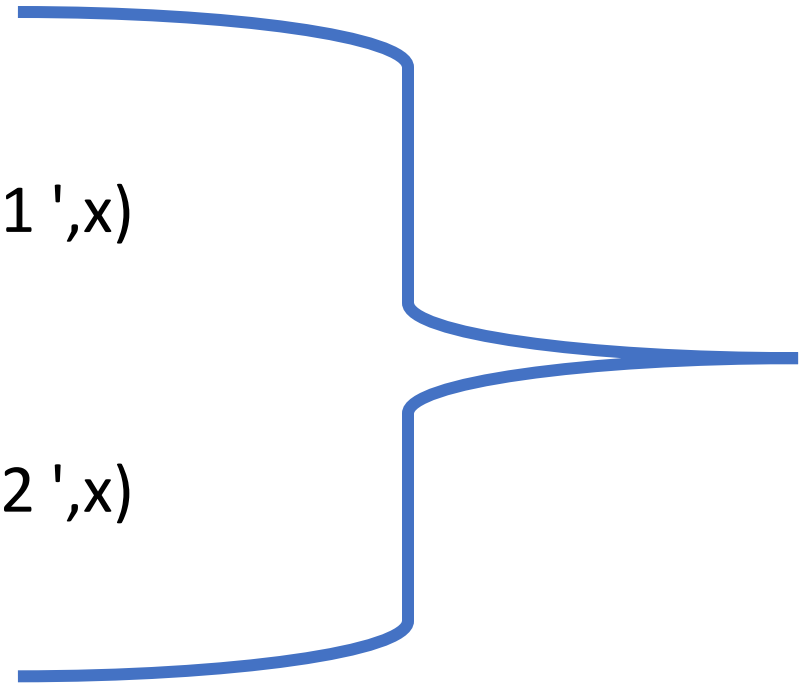
Traditional

Add the Global command to the function.

Main line code is NOT a function

```
def sub1():
    global x
    print('s1 ',x)
    x=x+1
    print('s2 ',x)
    x=x+1
    return
x=5
sub1()
print('M1 ',x)
x=x+2
sub1()
print('M2 ',x)
x=x+2
sub1()
```

Note



MAIN

```
def sub1():
    global x
    print('s1 ',x)
    x=x+1
    print('s2 ',x)
    x=x+1
    return
x=5
sub1()
print('M1 ',x)
x=x+2
sub1()
print('M2 ',x)
x=x+2
sub1()
```

Try This

Main function

Global variable when main is function (cross function variable)

Note

```
def sub1():
    global x
    print('S1 ',x)
    x=x+1
    print('S2 ',x)
    x=x+1
    return
```

```
def main():
    global x
    x=5
    sub1()
    print('M1 ',x)
    x=x+2
    sub1()
    print('M2 ',x)
    x=x+2
    sub1()
main()
```

Try This

```
def sub1():
    global x
    print('S1 ',x)
    x=x+1
    print('S2 ',x)
    x=x+1
    return
```

```
def main():
    global x
    x=5
    sub1()
    print('M1 ',x)
    x=x+2
    sub1()
    print('M2 ',x)
    x=x+2
    sub1()
main()
```

done