

Assignment – write the output

1.

```
def a_fun():  
    global name  
    name = 'A'  
  
def b_fun():  
    global name  
    name = 'B'  
  
b_fun()  
a_fun()  
print (name)  
# output= A
```

2.

```
a = 10  
def f():  
    print ('Inside f() : ', a)  
  
def g():  
    a = 20  
    print ('Inside g() : ',a)  
  
def h():  
    global a  
    a = 30  
    print ('Inside h() : ',a)  
  
print ('global : ',a)  
f()  
print ('global : ',a)  
g()  
print ('global : ',a)  
h()  
print ('global : ',a)
```

```
# output:
# Inside g() : 10
# global : 10
# Inside f() : 10
# global : 10
# global : 10
# Inside h() : 30
# global :30
```

3.

```
a_var = 10
```

```
b_var = 15
```

```
e_var = 25
```

```
d_var = 100
```

```
def a_func(a_var):
```

```
    print("in a_func a_var =", a_var)
```

```
    b_var = 100 + a_var
```

```
    d_var = 2 * a_var
```

```
    print("in a_func b_var =", b_var)
```

```
    print("in a_func d_var =", d_var)
```

```
    print("in a_func e_var =", e_var)
```

```
    return b_var + 10
```

```
c_var = a_func(b_var)
```

```
print("a_var =", a_var)
```

```
print("b_var =", b_var)
```

```
print("c_var =", c_var)
```

```
print("d_var =", d_var)
```

```
# OUTPUT
```

```
"""
```

```
in a_func a_var = 15
```

```
in a_func b_var = 115
```

```
in a_func d_var = 30
```

```
in a_func e_var = 25
```

```
a_var = 10
```

```
b_var = 15
```

```
c_var = 125
d_var = 100
"""
```

4.

```
a,b,x,y = 1,15,3,4
```

```
def fun(x, y):
    global a
    a = 42
    x,y = y,x
    b = 33
    b = 17
    c = 100
    print (a,b,x,y)
```

```
fun(17,4)
```

```
print (a,b,x,y)
```

```
# OUTPUT
"""
42 17 4 17
42 15 3 4
"""
```

5.

```
def f():
    x = 42
    def g():
        global x
        x = 43
    print("Before calling g: ",x)
    g()
    print("After calling g: ",x)
```

f()

print("x in main: " ,x)

```
# output:
"""before calling g: 42
after calling g: 42
x in main: 43
"""
```

6.

def outer():

    s="Ludhiana"

    def inner1():

        s="punjab"

    def inner2():

        nonlocal s

        s="Chandigarh"

    def inner3():

        global s

        s="Haryana"

    print(s)

    inner1()

    print(s)

    inner2()

    print(s)

    inner3()

    print(s)

outer()

print(s)

```
# OUTPUT:
"""
```

Ludhiana

Ludhiana

```
Chandigarh
Chandigarh
Haryana
"""
```

7.

```
eid,ename,esal=1,'aaa',10000.56
```

```
def emp(eid,ename,esal):
```

```
    globals()['eid']=eid
```

```
    globals()['ename']=ename
```

```
    globals()['esal']=esal
```

```
print(eid,ename,esal)
```

```
def disp():
```

```
    print(eid,ename,esal)
```

```
emp(111,'ratan',10000.45)
```

```
disp()
```

```
print(eid,ename,esal)
```

```
# OUTPUT
```

```
"""
```

```
1 aaa
```

```
10000.56
```

```
111 ratan
```

```
10000.45
```

```
111 ratan
```

```
10000.45"""
```

8.

```
a,b=100,200
```

```
class MyClass():
```

```
    a,b=10,20
```

```
    def add(self,a,b):
```

```
        print(a+b)
```

```
        print(globals()['a']+globals()['b'])
```

```
        print(self.a+self.b)
```

```

        def mul(self,a,b):
            print(a*b)
            print(globals()['a']+globals()['b'])
            print(self.a*self.b)

```

```
c = MyClass()
```

```
c.add(3,3)
```

```
c.mul(4,4)
```

```
# output:
```

```
"""
```

```
6
```

```
300
```

```
30
```

```
16
```

```
300
```

```
200"""
```

9.

```
class Emp:
```

```
    def __init__(self,eid,ename,esal):
```

```
        self.eid=eid
```

```
        self.ename=ename
```

```
        self.esal=esal
```

```
    def __str__(self):
```

```
        return "emp id=%d Emp name=%s Emp sal=%g"%(self.eid,self.ename,self.esal)
```

```
e1 = Emp(111,"kamal",100000.45)
```

```
print(e1)
```

```
e2 = Emp(111,"anu",200000.46)
```

```
print(e2)
```

```
class Test :
```

```
    @staticmethod
```

```
    def static_method_1():
```

```
        print('static method 1')
```

```
    @staticmethod
```

```
def static_method_2() :  
    Test.static_method_1()  
@classmethod  
def class_method_1(cls) :  
    cls.static_method_2()
```

# call class method

Test.class\_method\_1()

```
# output:  
"""  
emp id=111 Emp name=kamal Emp sal=100000  
emp id=111 Emp name=anu Emp sal=200000  
"""
```