**Assignment-03**

**Q2.** 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)

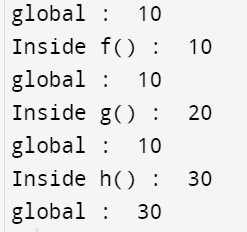
g()

print ('global : ',a)

h()

print ('global : ',a)

**Output:**



**Q1.** def a\_fun():

global name

name = 'A'

def b\_fun():

global name

name = 'B'

b\_fun()

a\_fun()

print (name)

**Output:**

A

**Q3**. 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)

**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

**Q4.**

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

**Q5.**

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:**

43

42

43

**Q6.**

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

**Q7.**

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

**Q8.**

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