

▼ class variables

variable which are defined inside the class called as class variables

with-out object, class variables can be accessed

class_name.variable_name

```
class sample: # class definition
    x = 10 # class variable x definition
    y = 20 # class variable y definition

print(sample.x)
print(sample.y)

10
20
```

▼ class functions

```
class sample:
    def f1(): # class function or method definition
        print('class : sample')
        print('function : f1( )')

    def f2():
        print('class : sample')
        print('function : f2( )')

sample.f1()

class : sample
function : f1( )

sample.f2()

class : sample
function : f2( )
```

```
class sample:
    x = 10
    y = 20
```

```

y = 20
def f1():
    print('class : sample')
    print('function : f1( )')
    print('class variable x :',sample.x)
    print('class variable y :',sample.y)

def f2():
    print('class : sample')
    print('function : f2( )')
    print('class variable x :',sample.x)
    print('class variable y :',sample.y)

```

sample.f1()

```

class : sample
function : f1( )
class variable x : 10
class variable y : 20

```

sample.f2()

```

class : sample
function : f2( )
class variable x : 10
class variable y : 20

```

▼ object creation

```
s1 = sample() # empty object created
```

```
print(type(s1))
```

```
<class '__main__.sample'>
```

```
s1.a = 'jagadeesh'
```

▼ class definition test

```

class test:
    pass

```

▼ explicit class variable definition

```
test.x = 100
test.y = 200
```

```
print(test.x)
```

```
100
```

```
print(test.y)
```

```
200
```

```
test.f1 = lambda : print('test.f1( )')
```

```
test.f2 = lambda : print('test.f2( )')
```

```
test.f1()
```

```
test.f1( )
```

```
test.f2()
```

```
test.f2( )
```

▼ explicit object variable definition

```
t1 = test() # empty object created
```

```
t1.a = 10 # object or instance variable a definition
```

```
t1.b = 20 # object or instance variable b definition
```

```
print(t1.a)
```

```
10
```

```
print(t1.b)
```

```
20
```

```
t2 = test() # empty object created
```

```
t2.p = 'python'
```

```
t2.q = 'django'
```

```
print(t2.p)
```

```
python
```

```
print(t2.q)
```

```
django
```

```
print(type(t1))
```

```
<class '__main__.test'>
```

```
print(type(t2))
```

```
<class '__main__.test'>
```

```
print(test.x)
```

```
print(test.y)
```

```
100
```

```
200
```

```
print(t1.a)
```

```
print(t1.b)
```

```
10
```

```
20
```

```
print(t2.p)
```

```
print(t2.q)
```

```
python
```

```
django
```

```
t3 = test() # empty object created
```

```
t3.fun1 = lambda:print('test,t3,fun1( )')
```

```
t3.fun2 = lambda:print('test,t3,fun2( )')
```

```
t3.fun1()
```

```
test,t3,fun1( )
```

```
t3.fun2()
```

```
test,t3,fun2( )
```

```
class mytest: # class definition
```

```
    x = 100 # class variable x definition
```

```
print(mytest.x)
```

```
100
```

```
m1 = mytest() # empty object
```

```
print(m1.x)
```

```
100
```

```
m1.x = 'python'
```

```
print(m1.x)
```

```
python
```

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