```
Access Modifier's
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In generally,the Access modifier's are

                Java                        python
                ----                        -------
public          public static int x=10;     x=10

protected       protected static int y=20;  _y=20

private         private static int z=30;    __z=30

ex:
---
class test:
    a=1
    _b=2
    __c=3
    def m1(self):
        print("i am in public method")
        self.x=10
        self._y=20
        self.__z=30
        print(test.a)
        print(test._b)
        print(test.__c)
        print(self.x)
        print(self._y)
        print(self.__z)
    def _m2(self):
        print("i am in protected method")
    def __m3(self):
        print("i am in private method")
t1=test()
t1.m1()
t1._m2()
t1._test__m3()
print(t1.a)
print(t1._b)
print(t1._test__c)
print(t1.x)
print(t1._y)
print(t1._test__z)

output:
-------
i am in public method
1
2
3
```

```
10
20
30
i am in protected method
i am in private method
1
2
3
10
20
30
```

ex2:

```
class x:
    pass
class y(x):
    pass
class z:
    pass
y1=y()
print(isinstance(y1,x))
print(isinstance(y1,z))
print(isinstance(y1,y))
print(issubclass(y,x))
print(issubclass(z,x))
```

output:

```
True
False
True
True
False
```

how to set the attributes and how to get the attributes:
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       we can set the attriubutes to the object from outside of that class by
using setattr()

       setattr(obj,attributename,attributevalue)

       we can get the attributes from the object from outside of that class by
using getattr()

       getattr(obj,attributename,attributevalue)

ex:

```python
class student:
    col_name="Vagdevi"
    col_add="Ameerpet"
    def std_info(self):
        self.sid=101
        self.sname="siva"
        print(student.col_name)
        print(student.col_add)
        print(self.sid)
        print(self.sname)
s1=student()
s1.std_info()
print('*'*20)
setattr(s1,'col_name','Entri')
setattr(s1,'sid',102)
setattr(s1,'sname','rama')
print(getattr(s1,'col_name'))
print(getattr(s1,'col_add'))
print(getattr(s1,'sid'))
print(getattr(s1,'sname'))
print('*'*20)
s1.std_info()
```

output:

Vagdevi
Ameerpet
101
siva
****
Entri
Ameerpet
102
rama
****
Vagdevi
Ameerpet
101
siva

setters(mutators) and getters(accessors)
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ex:

```python
class student:
    def setSname(self,sname):
        self.sname=sname
    def setSid(self,sid):
        self.sid=sid
    def getSname(self):
```

```python
        print("Student Name:",self.sname)
    def getSid(self):
        print("Student Id:",self.sid)
s1=student()
s1.setSname("siva")
s1.setSid(101)
s1.getSname()
s1.getSid()
```

output:

Student Name: siva
Student Id: 101