

Full stack web development using python

Name mangling



Saurabh Shukla (MySirG)

Agenda

- ① Data Hiding
- ② Hidden Variables
- ③ Name Mangling

Data Hiding

There is no concept of access specifiers in Python (like C++ or Java)

Hidden Variables

Variables prefix with two underscores will not be directly visible outside the class.

class Test:

 x=5 # visible static variable

 __h=10 # invisible static variable

 def __init__(self):

 self.__a=100 # invisible instance
 # variable

These variables are hidden variables

Name Mangling

You can access hidden variables from inside the class.

You cannot access hidden variables directly from outside the class

To access hidden variables from outside the class, write `_classname__hiddenVar`, that is use prefix `_classname`

This is called Name mangling.

```
class Test:
```

```
    x=5    # visible static variable
```

```
    __h=10 # invisible static variable
```

```
    def __init__(self):
```

```
        self.__a=100    # invisible instance  
                        # variable
```

```
print(Test._Test__h)
```

```
t1=Test()
```

```
print(t1._Test__a)
```