

# 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)

In python all class attributes can be access outside the class. there is no concept of data hiding directly

# 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)
```

`print(t1.__dict__)` -->> use for print all the variable inside the instance object