

Python_Inheritance_Day_14_(DATA_MINDS)

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INHERITANCE :- IN INHERITANCE WE USE THE CLASS OF OTHER COFE IN OUR CLASS OR CODE WITHOUT MAKING THE NEW CLASS OR FUNCTION , IT REDUCE THE SIZE OF CODE AND IMPROVE THE REUSABILTY OF CODE

WE SIMPLY INHERIT THE PROPERTIES OF PARENT CLASS TO CHILD CLASS WITHOUT MAKING NEW CLASS OR CODE

NOTE - IN INHERITANCE WE ACCESS THE ONE CLASS INTO THE OTHER CLASS

```
[5]: class test:
      def test_meth(self):
          return "This is my first class by Virat Tiwari"
```

```
[6]: class child_test(test):
      pass
```

```
[7]: child_test_obj=child_test()
```

```
[8]: child_test_obj.test_meth()
```

```
[8]: 'This is my first class by Virat Tiwari'
```

MULTILEVEL INHERITANCE :- IN MULTILEVEL INHERITANCE IT INHERIT OR INVOKE THE CLASS IN HEIRARICHI LIKE THERE ARE THREE(3) CLASSES - CLASS 1, CLASS 2 ,CLASS 3 , SO CLASS 2 IS HERIT THE PROPERTIES OF CLASS 1 AND CLASS 3 IS INHERIT THE PROPERTIES OF CLASS 2

```
[19]: class class1:
      def test_class1(self):
          return "This is method from class1"
```

```
[20]: class class2(class1):
      def test_class2(self):
          return "This is method of class2"
```

```
[21]: class class3(class2):
      pass
```

```
[22]: obj_class3=class3()
```

```
[23]: obj_class3.test_class1()
```

```
[23]: 'This is method from class1'
```

```
[24]: obj_class3.test_class2()
```

```
[24]: 'This is method of class2'
```

MULTIPLE INHERITANCE : - IN MULTIPLE INHERITANCE WE ACCESS THE CLASSES FROM MULTIPLE CLASS LIKE “CLASS OF SON” ACCESS THE PROPERTIES FROM “CLASS OF FATHER” AND “CLASS OF MOTHER” BOTH

```
[27]: class class1:
      def test_class1(self):
          return "This is class1 by Virat Tiwari"
```

```
[28]: class class2:
      def test_class2(self):
          return "This is class2 by Virat tiwari"
```

```
[29]: class class3(class1,class2):
      pass
```

```
[30]: obj_class3=class3()
```

```
[31]: obj_class3.test_class1()
```

```
[31]: 'This is class1 by Virat Tiwari'
```

```
[32]: obj_class3.test_class2()
```

```
[32]: 'This is class2 by Virat tiwari'
```