

**Experiment 7**

1) A Program showing single inheritance in which two subclasses are derived from a single base class

```
class bank(object):
    cash = 100000000
    @classmethod
    def available_cash(cls):
        print(cls.cash)

class bankofindia(bank):
    pass

class statebank(bank):
    cash = 200000000
    @classmethod
    def available_cash(cls):
        print(cls.cash+bank.cash)

a = bankofindia()
a.available_cash()
s = statebank()
s.available_cash()
```

```
100000000
120000000
```

2) A Python program to implement multiple inheritance using two base classes

```
class father:
    def height(self):
        print("height is 6.0 foot")

class mother:
    def color(self):
        print("Color is Brown")

class child(father, mother):
    pass

c = child()
print("Child's Inheritance Properties: ")
c.height()
c.color()

Child's Inheritance Properties:
height is 6.0 foot
Color is Brown
```

3) A python program to implement Multilevel Inheritance

```
class grandfather:
    def __init__(self, grandfathername):
        self.grandfathername = grandfathername

class father(grandfather):
    def __init__(self, fathername, grandfathername):
        self.fathername = fathername

        grandfather.__init__(self, grandfathername)

class son(father):
    def __init__(self, sonname, fathername, grandfathername):
        self.sonname = sonname
        father.__init__(self, fathername, grandfathername)

    def print_name(self):
        print("GrandFather Name: ", self.grandfathername)
        print("Father Name: ", self.fathername)
        print("Son Name: ", self.sonname)

s1 = son('Prince', 'Rampal', 'Lal Mani')
print(s1.grandfathername)
s1.print_name()
```

Lal Mani  
GrandFather Name: Lal Mani  
Father Name: Rampal  
Son Name: Prince

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