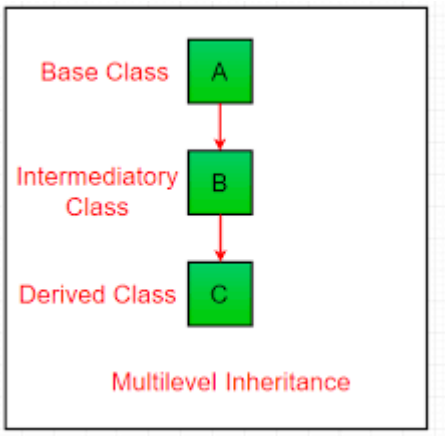
Lab Exercise 4

Write a Python program to implement the object-oriented concepts of multiple, Multilevel and Hierarchical Inheritances using your domain applications.

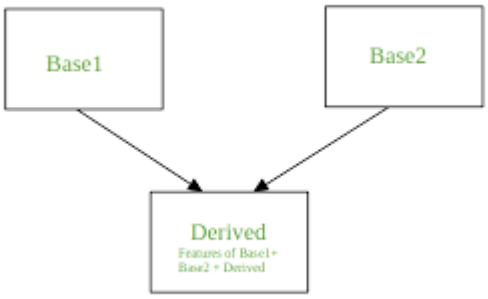
MULTI-LEVEL INHERITANCE



In [ ]:
```
# MULTI-LEVEL INHERITANCE

class Event:
    def __init__(self, name):
        self.ename = name

class Manager(Event):
    def __init__(self, ename, mname):
        self.ename = ename
        self.Manager_name = mname

class company(Manager):
    def __init__(self, ename, manager, comp_name):
        self.Ename = ename
        self.Manager_name = manager
        self.cname = comp_name

    def details(self):
        print(f"The Company {self.cname} has an event {self.Ename} managed by {s

ma = company("Ureka", "Suraj", "Anoexo")

ma.details()
```

```
The Company Anoexo has an event Ureka managed by Suraj
```

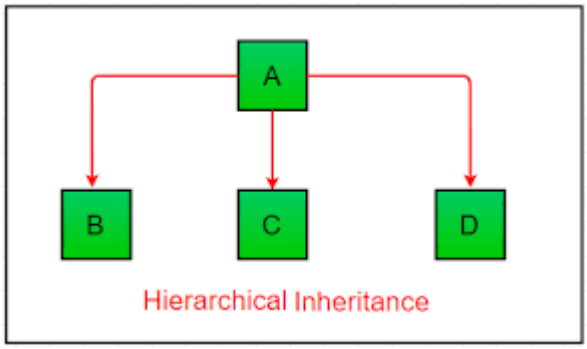
MULTIPLE INHERITANCE



In [ ]:
```
# MULTIPLE INHERITANCE

class Event:
    def __init__(self, name):
        self.Ename = name

    def event(self):
        print(f"Event : {self.ename}")

class Manager:
    def __init__(self, name):
        self.Manager_name = name

    def manager(self):
        print(f"Manager : {self.Manager_name}")

class company(Event, Manager):
    def __init__(self, ename, manager, comp_name):
        self.Ename = ename
        self.Manager_name = manager
        self.cname = comp_name

    def details(self):
        print(f"Company : {self.cname}, Event : {self.Ename}, Manager : {self.Ma


c = company("MicDrop", "Raj", "Meta")

c.details()
```

```
Company : Meta, Event : MicDrop, Manager : Raj
```

HIERARCHICAL INHERITANCE



In [ ]:
```
# HIERARCHICAL INHERITANCE

class Event:
```

```
    def __init__(self, name):
        self.Ename = name

    def event(self):
        print(f"Event : {self.ename}")

class Manager(Event):
    def __init__(self, name, ename):
        Event.__init__(self, ename)
        self.Manager_name = name

    def manager(self):
        print(f"{self.Manager_name} is assigned to the event {self.Ename}")

class company(Event):
    def __init__(self, ename, comp_name):
        self.Ename = ename
        self.cname = comp_name

    def details(self):
        print(f"Company : {self.cname}, Event : {self.Ename}")


c = company("MicDrop", "Meta")
m = Manager("Rahul", "MicDrop")

c.details()
m.manager()
```

```
Company : Meta, Event : MicDrop
Rahul is assigned to the event MicDrop
```