#Single inheritance

class Base():

def display(self):

print("I am a base class")

class Derived(Base):

def display1(self):

print("I am a derived class")

obj=Derived()

obj.display()

obj.display1()

#Multi-Level inheritance

class Base1():

def display(self):

print("I am a base class1")

class Base2(Base1):

def display1(self):

print("I am a base class2")

class Derived(Base2):

def display2(self):

print("I am a derived class")

obj=Derived()

obj.display()

obj.display1()

obj.display2()

#Multiple inheritance

class Base1():

def display(self):

print("I am a base class1")

class Base2():

def display1(self):

print("I am a base class2")

class Derived(Base1,Base2):

def display2(self):

print("I am a derived class")

obj=Derived()

obj.display()

obj.display1()

obj.display2()

#Hierarchical Inheritance

class Base():

def display(self):

print("I am a base class")

class Derived1(Base):

def display1(self):

print("I am a derived class1")

class Derived2(Base):

def display2(self):

print("I am a derived class2")

obj=Derived1()

obj1=Derived2()

obj.display()

obj.display1()

obj1.display()

obj1.display2()

#Hybrid Inheritance

class Base1():

def display(self):

print("I am a base class1")

class Base2():

def display1(self):

print("I am a base class2")

class Derived1(Base1):

def display2(self):

print("I am a derived class1")

class Derived2(Derived1,Base2):

def display3(self):

print("I am a derived class2")

obj=Derived1()

obj1=Derived2()

obj.display()

obj.display2()

obj1.display()

obj1.display1()

obj1.display2()

obj1.display3()