

Parent Class

class Order:

def __init__(self, order_id, items, amount):

self.order_id = order_id

self.items = items

self.amount = amount

def show_order(self):

tax = 50 # Local variable

print(f"Order ID: {self.order_id}")

print(f"Items: {self.items}")

print(f"Amount: {self.amount}")

print(f"Tax: {tax}")

Child Class

class Delivery(Order):

def show_delivery(self):

self.show_order() # Call parent method

print("Delivery Status: Out for Delivery")

Object Creation

d1 = Delivery("ZP101", ["Milk", "Bread", "Eggs"], 350)

d1.show_delivery()

2.Amazon E-Commerce

Parent Class

class Product:

def __init__(self, name, price, category):

```
self.name = name  
self.price = price  
self.category = category
```

```
def show_product(self):  
    platform = "Amazon" # Local variable  
    print(f"Product Name: {self.name}")  
    print(f"Price: {self.price}")  
    print(f"Category: {self.category}")  
    print(f"Platform: {platform}")
```

Child Class

```
class DiscountedProduct(Product):  
    def show_discount(self, discount_percentage):  
        self.show_product() # Call parent method  
        final_price = self.price - (self.price * discount_percentage / 100) # Local variable  
        print(f"Discount: {discount_percentage}%")  
        print(f"Final Price after Discount: {final_price}")
```

Object Creation

```
p1 = DiscountedProduct("Smartphone", 20000, "Electronics")  
p1.show_discount(10)
```

3.Uber-Ride Booking

Parent Class

```
class Product:  
    def __init__(self, name, price, category):  
        self.name = name
```

```
self.price = price  
self.category = category
```

```
def show_product(self):  
    platform = "Amazon" # Local variable  
    print(f"Product Name: {self.name}")  
    print(f"Price: {self.price}")  
    print(f"Category: {self.category}")  
    print(f"Platform: {platform}")
```

Child Class

```
class DiscountedProduct(Product):  
    def show_discount(self, discount_percentage):  
        self.show_product() # Call parent method  
        final_price = self.price - (self.price * discount_percentage / 100) # Local variable  
        print(f"Discount: {discount_percentage}%")  
        print(f"Final Price after Discount: {final_price}")
```

Object Creation

```
p1 = DiscountedProduct("Smartphone", 20000, "Electronics")  
p1.show_discount(10)
```