class CelestialBody:

def \_\_init\_\_(self, size, mass, composition, name):

self.size = size

self.mass = mass

self.composition = composition

self.name = name

# create the satellite class

class Satellite(CelestialBody):

def \_\_init\_\_(self, size, mass, composition, name,host\_planet):

super().\_\_init\_\_(size, mass, composition, name)

self.host\_planet=host\_planet

# create the planet class

class Planet(CelestialBody):

def \_\_init\_\_(self, size, mass, composition, name,host\_star):

super().\_\_init\_\_(size, mass, composition, name)

self.host\_star=host\_star

# DO NOT ALTER THIS CODE

import sys

strings = [l.split(",") for l in sys.argv[1].split("\*")]

accounts = [[int(n) for n in s] for s in strings]

class Bank:

def \_\_init\_\_(self, name, customers, accounts):

self.name = name

self.customers = customers

self.accounts = accounts

def branch\_total(self, accounts):

total = 0

for account in accounts:

total += account

return total

# Write your code here

class RegionalBank(Bank):

def regional\_total(self):

total = 0

for account in accounts:

total += self.branch\_total(account) #Bukak 2 D array

return total

obj1 = RegionalBank('Azrai',11,accounts)

print(obj1.regional\_total())

# parent class

class Book:

def \_\_init\_\_(self, title, author, genre):

self.title = title

self.author = author

self.genre = genre

# child class

class BlogPost(Book):

def \_\_init\_\_(self, website,title, author,word\_count, genre,page\_views):

super().\_\_init\_\_(title, author, genre)

self.website=website

self.word\_count=word\_count

self.page\_views=page\_views

my\_post = BlogPost("Vogue", "Hot Summer Trends", "Amy Gutierrez", 2319, "fashion", 2748)

print(my\_post.website)

print(my\_post.title)

print(my\_post.author)

print(my\_post.word\_count)

print(my\_post.genre)

print(my\_post.page\_views)

class Parent1:

def identify(self):

return "This method is called from Parent1"

class Parent2:

def identify(self):

return "This method is called from Parent2"

# declare child class here

class Child(Parent2,Parent1):

def identify(self):

return "This method is called from Child"

def identify2(self):

return super().identify()

child\_object = Child()

print(child\_object.identify())

print(child\_object.identify2())

# parent classes

class Person:

def \_\_init\_\_(self, name, address):

self.name = name

self.address = address

def get\_info(self):

return f"{self.name} lives at {self.address}."

class CardHolder:

def \_\_init\_\_(self, account\_number):

self.account\_number = account\_number

self.balance = 0

self.credit\_limit = 5000

def process\_sale(self, price):

self.balance += price

def make\_payment(self, amount):

self.balance -= amount

# declare child class here

class PlatinumClient(Person,CardHolder):

def \_\_init\_\_(self,name,address,account\_number):

Person.\_\_init\_\_(self,name,address)

CardHolder.\_\_init\_\_(self,account\_number)

self.cash\_back = 0.02

self.rewards = 0

def process\_sale(self,price):

super().process\_sale(price)

self.rewards = self.balance\*self.cash\_back

platinum = PlatinumClient("Sarah", "101 Main Street", 123364)

platinum.process\_sale(100)

print(platinum.rewards)

print(platinum.balance)

platinum.make\_payment(50)

print(platinum.balance)

print(platinum.get\_info())