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AAI 551 in class exercise 8

Write a class named person with a constructor that initializes name and age attributes

Define a class named employee that inherits from person

Within the employee class, define a method compute\_salary that returns a base salary amount. Also, define a method number\_of\_vacation that returns a base number of vacation days

Create a class engineer that inherits from employee. Override the compute\_salary method to return a higher salary specific to engineers

Define another class manager that also inherits from employee. Override both compute\_salary and number\_of\_vacation methods to reflect the pay and benefits of a managerial position

Instantiate objects of engineer and manager and demonstrate how the overridden methods provide different outputs for each

class Person:

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

self.name = name

self.age = age

class Employee(Person):

def compute\_salary(self):

return 65000

def number\_of\_vacation(self):

return 22

class Engineer(Employee):

def compute\_salary(self):

return 105000

class Manager(Employee):

def compute\_salary(self):

return 200000

def number\_of\_vacation(self):

return 50

#instantiate and show the outputs are different

engie = Engineer(“Angel”, 23)

boss = Manager(“Don”, 44)

print(“Engineer Salary: ${engie.compute\_salary()}, Engineer Vacation Days: {engie.number\_of\_vacation()}”)

print(“Manager Salary: ${boss.compute\_salary()}, Manager Vacation Days: {boss.number\_of\_vacation()}”)