### **Assignment 4**

# **Courier Management System**

# Control Structure(Task1,2,3,4)(With Outputs):

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control Structure by X

do Categorize purcel (weight):

if weight (S):

return "light"

ill S C weight (C 15:

return "healing"

return "healing"

return "healing"

purcel weight input "flow(imput(Twhere the purcel weight "3))

category - categorize, purcel (purcel weight input)

print("The purcel is categorized as (category).")

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### Task(5,6,7,8):

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def __init__(self, CompanyMase);

self__complementate = (in floation of fourier objects

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self__complementate = paymentDot

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from shc import sec__abstractmethod

import random

class CounterCounterDot

self__complementate = paymentDot

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# Implementation of methods in classes:

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    from one import ANK, shiftenessed
    from datation import dutation
    import random

         init_(self, employeeTD, employeeTame, contactNumber):
    self.employeeTD = employeeTD
                self.employeekame - employeekame
self.contactmumber - contactmumber
            Courier-tracking number counter += 1
self_sundermane = senderMane
                self.senderAddress - senderAddress
                self.receiverName - receiverName
              self.receiverAddress = receiverAddress
self.weight = weight
self.status = "yetToTranuit"
               selfTuserId - userId
       class (CourierDuerService(ABC))
           gabstructmethod
            def placeOrder(self, counterObj):|
    paid
            def getOrderStatus(self, trackingnumber):
            gabstructmethod
             inf cancelOrder(self, trackingNumber);
```

```
clases.py X

    classury > to CounterCoerService > 10 placeCodes

            Babstractmethod
            mer gotAssignodOrder(self, courierStaffid):
            Mabstructmethod
            inf addCourierStaff(self, name, contactNumber):
       class TrackingNumberNotFoundException(Exception):
            tracking number counter = random-randint(1888, 9999)
            init_(self, sendermame, sendermame, receivermame, receivermiddress, weight, userId):
    self.trackingnumber - Courier.tracking number_counter
                (ourler.tracking_number_counter += 1
self.senderName = senderName
                 self-receivernme = receiverName
                self weight weight
                self.status - Tyotio)
self.userId - userId
            courier orders []
            not placeOrder(self, courierObj):
                    unterService.courter_orders_append(courterObj)
```

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g danespy X
                   return courierObj.trackingNumber
              def getOrderStatus(self, trackingNumber);
    for order in CourierService.courier_orders;
                        if order tracking number - tracking number:
                   return order.status
raise PrackingNamberMotFoundException("Tracking Number Not found.")
              def cancelOrder(self, trackingnumber):
                   for order in CouringService.courier orders:

If order.trackingNamber — trackingNamber:

If order.status — "yetfoTransit":
                                 Courierservice.courier_orders.resove(order) return True
                   raise TrackingNumberNoFFoundException("Carrot cancel an order that is already in transit or delivered.")
raise TrackingNumberNoFFoundException("Tracking Number not found.")
              duf gotAssignedOrdor(self, courierStaffId):
                       return staff orders
                  except TrackingAutherNotFoundException as e:
print(f"Exception: (e)")
              ief addCourierStaff(self, mame, contactNumber);
                  new_staff = Implayer(employerEnlen(courierservice.courier_staff) + 1, employerEnme.mame, contactNumber.contactNumber)
CourierService.courier_staff.append(new_staff)
                   return new_staff.employeeID
              ief getEmployeeHameById(self, employeeID);
                        if employee.employeeID - employeeID;
                            return employee-employeetase
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print("Execution completed.")

def validate customer_info(data, detail):
    if detail = "nome":
        return data.isalpha() and data.istilo()

valid detail = "address":
        return data.isalpha() and not any(char.isdigit() for char in data)

valid detail = "address":
    return data.isalma() and not any(char.isdigit() for char in data)

valid detail = "address":
    return remarkch(r'*/v(3) \vd(3) \vd(4)$', data) is not more

return remarkch(r'*/vd(3) \vd(3) \vd(4)$', data) is not more

print(validate customer_info(makessi ")
    print(validate customer_info(makessi "))
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# **Output:**

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### **New inputs:**

```
courier_service = CourierService()

try:

# Place Drdor

ander1 = Courier("Roban ", "133 Jalgoon", "Roban Chaudhari", "450 Second St", $1, userid-2)

tracking nowher = tourier service.pathcoorder(order2)

print("Order placed, Tracking hunder: (tracking_number)")

# Bet Order Status

status = courier_service.pathcderstatus(tracking_number)

print("Tourier Status: [status)")

# Cancel Drdor

accollation result = courier_service.gathcderstatus(tracking_number)

print("Tourier Status: [status)")

# Get Avaigned Orders

assigned orders = courier_service.gathssignedorder(courierStaffid-s)

print("Tourier Courier staff

staff id = courier_service.gathcourierStaff(name="Courier Staff 2", contactNumber="9876542310")

# Add Courier Staff

staff id = courier_service.gathcourierStaff(name="Courier Staff 2", contactNumber="9876542310")

# Order Impleyer Name by ID

# Order Impleyer Name courier_service.gathcourierStaff(secontion) is e)

## print("Tangloyon Names (compleyee_name)")

## Order Impleyer Name = courier_service.gathcourierStaff(secontion) is e)

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## Order Impleyer Name = courier_service.gathcourierStaff(secontion) is e)

## print("Tangloyon Names = courier_service.gathcourierStaf
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# Output:

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### Task9:

# Inputs:

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### **Output:**

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Consected to the database
Order inserted successfully.

Inserted
Courier status updated successfully.

Legisted

Delivery History: {(5, 'Kavita Patel', '777 Oak Street, Delhi', 'Vincd Eyer', '888 Maple Avenue, Manhai', Decimal('0.28'), 'In transit', 'TAP8M82', datetime.date(28 23, 4, 8))]

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### **Database changes:**



