Excupte:

Airline Seats Roservation System

Step 1: what are the internal sarithes?

1 First Name

2 Last Nane

3 Amment Paid

Step2 What are the functions of the class?

(1) Reserve a sect

-> Set all It The interal variables to provided whees.

2) "Un" Reserre a socit

I reset the internal variables to the default values (empty) 3) Charle to see if sent is reserve! -> Return T/F

Print Method

-> print a report of

ne intend varidoles.

Step 3: Write the class

(See airline. Ps.)

Main Program

Suppose we have an airplane noth 5 Sects. Let's creede a <u>113t</u> of 5 Sect objects.

num - sects = 5

```
UUMIUU
 for i in vange (nom-sæts):
           available - sects. append (Seat ())
 -> This Is pretty wol, right?!?!
 We now have a list of Sect objects.
Seat (), Seat (), Seat (), Seat (),

Seat of Seat 1 Seat 2 Seat ()

Seat of object object Seat ()

-) all of the seats are outty.
```

```
Let's write a function ( that is
part of the main program), +>
print The current sect status.
def print-sects (sects): sects!
         global nom-seats
          \frac{1}{1} = \frac{1}{12} = \frac{1}{12}
```

```
for ii in range (nom-sects):

Sect-status-i2-empty append (

Sects [ii]. is-empty)

Print ["Current Sect Status") call the member print (Sect-status-i2-empty) function for this object!!

[T, T, T, T, T] (initially)
```

```
Let's write a function to print

The passenger list. list of sects

def print-passenger-list (sects):

global nom-sects

for ii in range (nom-sects):

if not sects[ii]. is empty():

print (f"fii): ", end

= "...")
```

Finally, let's write a "menu driver". The idea is that we ask the user to first choose we ask, and then based on that a task, we do the appropriate thank.

- (i) print the sect starters

 (i)
- (ii) pint the passenger list !
- (ili) reserve a now seat
- (iv) quit

input ('Enter Command: ')

```
command != "9"
  while
           if Command == "P"
                 print - Sects (available - sects)
          elif command == "l":
                print-passenger-134 (
                                  ovailabe-Sects)
         elif command == "r"
               reserve - soct (available - socts)
we still
         methy.
 need
        else :
write
              print ("Invalid command")
 +m's !!
                    Mput ( Enter Command )
        commant =
         reserve_seat (seats):
```

```
def reserve_seat (seats):

Sect_nom = int(input('Enter Sect num'))

if not Sects [sect_nom ]. is_empty():

print("Sect not empty")

else:
```

last name = input ()

paid = float (input ())

Sects [sect-nm]. reserve (first raw,

(ast name, paid)