

SIMPLE TRAIN BOOKING SYSTEM

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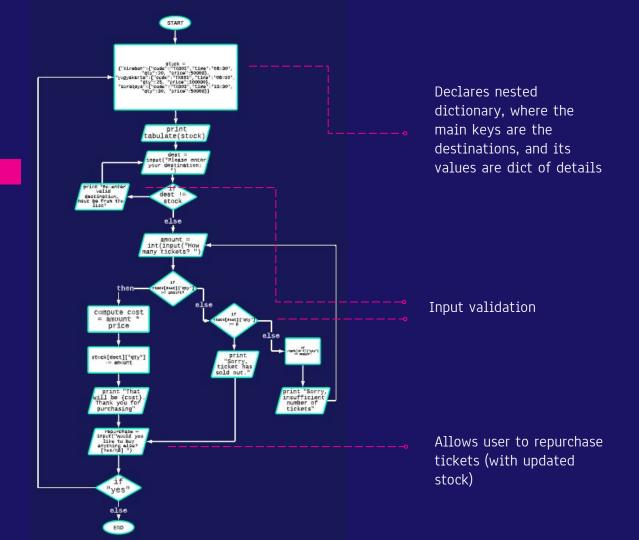
Problem statement



Flowchart

Main processes:

- Input dest
- Input no. of ticket
- Compute cost
- Output




```
import pyinputplus as pyip
def displayMenu(stock):
   item_length = 0
    for dest in stock:
       item_length = len(dest) if len(dest) > item_length else
item_length
   item_length += 1
   print(f"\n{'Destination':<{item_length}} {'Code':<8} {'Time':<7}</pre>
{'Price':<10} {'Seats left':<5}")
   print("----")
       code, time, qty, price = details
       print(f"{name.capitalize():<{item_length}} {details[code]:</pre>
<8} {details[time]:<7} Rp.{details[price]:<10} {details[gty]:<5}")</pre>
def ask dest(stock):
   while True:
       dest = input('Please enter your destination: ')
       dest = dest.lower()
       if dest not in stock:
           print("Invalid input: must be from the list of
           continue
       else:
           break
   while True:
       amount = pyip.inputNum("How many tickets? ", min=1)
       if stock[dest]['qty'] >= amount:
           sell(stock, dest, amount)
           break
       elif stock[dest]['qtv'] == 0:
           print("Sorry, ticket has sold out.")
           break
       elif stock[dest]['qty'] < amount:</pre>
           print('Sorry, there are insufficient number of
           continue
```

displayMenu function is used to display the information of

 Uses for loop to print all available options.

destinations.

available

- ask_dest function is used to prompt the user to input desired destination and amount of tickets.
- Additionally, it comes with input validation.

The Code: part 1

import pyinputplus as pyip

Module to shortcut input validation

The Code: part 2

```
def sell(stock, dest, amount):
    cost = amount * stock[dest]["price"]
    confirmation = pyip.inputYesNo(f"Are you sure? That will be Rp.
{cost}. [Yes/No] ")
    if "ves" == confirmation.lower():
        stock[dest]["qty"] -= amount
        print(f"Purchase summary: Departure to {dest} at
{stock[dest]['time']} for {amount} persons. Please have your ticket
ready at gate. Have a safe journey!")
    repurchase(stock)
def repurchase(stock):
    repurchase = pyip.inputYesNo("Would you like to buy anything
else? [Yes/No]")
def main(stock):
    displayMenu(stock)
    ask_dest(stock)
    stock = dict(cirebon=dict(code="TK001", time="08:30", qty=20,
price=50000),
                 yogyakarta=dict(code="TK002", time="08:00", gty=25,
price=100000),
                 surabaya=dict(code="TK003", time="13:00", qty=30,
price=200000),
    name = input('What is vour name? ')
    print(f'Hi, {name}. Here is the list of embarkment:')
    main(stock)
```

def sell is a function that
does 3 things:

- It calculates the cost of the purchase
- prompts the user to confirm there order
- prints the purchase info.

Def repurchase prompts the user to input whether they wish to buy other tickets

Def main calls the display menu and ask_dest functions

- The last parts(outside the functions) stores destination info
- Asks for user name and then calls main

Testing plan

Input destination	Re-input destination	Input amount	Re-input amount	Output cost	Amount left
"cirebon"		3		Rp. 150.000	17
"jakarta"	"Surabaya"	31	4	Rp. 800.000	26
"YOGYAKARTA"		2		Rp. 200.000	23
"surabayaa"	"Surabaya"	-1	10	Rp. 2.000.000	20
"CiReBoN"		five	5	Rp. 250.000	15