PAXE BOOKING SYSTEMS There are n no. of tanis. For samplesty, assure 2 But it should work for any no of Tarne! Kallway Tene A B C P E F bongo 15 km A 10\*10=100 5km=100 = N.201 1 km =107 Inited from A to not 5km=100\$ 10 Km = 600 Desson ble car Pr D first book Tani Tani ABR Low earn Toni = 800 F Earn

Book 1st Bk

Tani = 1000 F Earn Booking Rejected All tassi are En Robe (oding: Tani. Pava Class Jan Prt Pd -> Unique Pd Char eurrent = 'A' -> Name Port early :- 0 -> 0 Balance Array List (Sage Note defined & maintain order) Access Indess easily) List 2 Bic> booking = new Array list => (); public toni (Prot Pd) { 7 Constructor

Public boolean Bava (Port reg time) { Time: IT 13 Pf (booking.empty 1) return true; Ble fami **F** Booking last Bleing = BKRng. get (bkog. size()-1); Calculate Earning public ent calcearn (char from char to) { loc From - To Pot destance. Math-abs (to-from) x 15; C-A=2x15=30 return 100 + Math - man (0, (distance - 5) + 10) 1/100 + 25 + 10
Bling Add Bling Public World add Blag (Bling Booking) { Amit 350) (art) =12/w bles. add (Booleing); potalearn += Booleing. amount; Surb ( "Erter ) day droite. current = Booking. to; isolab and control of the Contains Booking détails New class Booking gara Put blad, austomaid, pickuptine, droptine, annt; Class Booking { Char Efrom, to; public. Booking (Pot Bkid, Port watermeeld, Port ... amont)
this. Bkid = bookingid; for Cartier Hammer (miles) Sert with from Thirte(1)); Between dan die ander the annt = annt; 6 and the statement of or by the private finite (as a) "); 4 and the state have the party and 4

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Feral class Tank Booking. gara
claes TaniBking System {
   Statie Let Z Tanis tani = new Array List <> ();
    Static Scurner Sc = new Scanner (System. 9n);
    Staticint ustomer counter = 1;
    public Static void mais (Strong [) wags) {
        S.o. p ("Enter no of tams: ");
        9nt rum Tarin = Sc. nest Intly; /2 A-c
        antialize Taxus (numtanus);
    3 Condetens for tank reservations
        while (true)
          S.o.p ("In1. Bk Tani In2. Display Tani details In3. Exit");
          S.o.p ("Enter your choice: ");
          Put Choice = Sc. need Int ();
           Switch (choice)
             (ase 1: book Tanil); Break;
             Case 2: display Taridatails (); break;
             (ase 3 Softmit ); break;
             default: S.o.p ("Invalid. Tory again");
                                                     1000
 Initialize Tames
    public Static void 9nPtraligeTanes (Intn) {.
       for (Enti=1; 9 <=n; 1+)
          tanis. add (nen Tanis(i));
    Public Static roid book tanie) {
       9nt unstomer id = customer countage +1;
     [ S.o.p (" Enter Pickup Point (A-F)");
      char pickup = Se. next For (). to Upper Case (). charAt(0);
```

```
too Also Drop Point (A-F)
           Enter Dickup Time (9n hrs):
  Port pickuptime = Sconest Int();
  Tani solected Tani = null;
                                                       Millimum distance
   Port mendistance = Integer. MIN_VALUE; -)
                                                       foreg
                                                         (A) BIL DOTE
   for (Tani tani: Tanis){
      9f (tani. Es Available (pickup tême))
         Port des = Moth. abs (tam. correct - pickup);
         If (dis &min 11 (dis = = min 29 tani. Earning & Selected teni
                                                                 earning));
          Selected Tani = taxi;
           min = dis;
      If (Solected Tank == null).
           S.o.p ("No taris Available, Busy rejected),
                                                               A-B=0
     7 return; 9am 9+3=12 3 1
Int droptine= prikuptine + Math-abs(drop-pickup);
      Port amost = Selected Tani. calculate carning (pickup, drop);
      Port blugted = Selected Tani. bookings. Sme()+1;
      Booking booking = new Booking (blad, customer ?d, pickup, doop,
                                            pickuptine, droptine, amnt).
       Selected Taris add Blug (booking);
      S.o.p ("Tani - " + selected Tani. Pdt" "s. allocated.");
                                          Repeat Same details for
 Suplay Tan details
  public Static void display toridet () {
                                             Booking booking: tami-bookings
   for (Tan tani: tani) {
     S.O.p ("Tari-"+ tami. Pd + "Total Earnings: Rs! + tari. Barring)
     5.0.P ("-1.-105 1.-105 -1.-55 -1.-55 1.-95 1.-95 1.-65/.n")

Builto ... annt) bodieg. blied ... bleeking annut)
```