

VIT-AP

A MINI PROJECT ON RESERVATION OF TRAIN TICKET

SUBMITTED BY-

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JAVA PROGRAM FOR RESERVATION

```
import java.util.Scanner; import
java.util.Date;
public class Reservation{
    private static int[] seats = new int[12];
public static void main(String args[]) {
    System.out.println("Welcome to the train reservation system!");
    System.out.println();
    for (int i = 0; i < 12; i++) {
        seats[i] = 0;
    }
    Scanner s = new Scanner(System.in);
    int choice = 1;
    System.out.print("Please enter 1 for window, 2 for aisle, or 0 to exit: ");
    choice = s.nextInt();
    while (choice != 0) {
        int seatnumber = 0;
        if (choice == 1) {
            seatnumber = bookWindow();
            if (seatnumber == -1) {
                seatnumber = bookAisle();
                if (seatnumber != -1) {
                    System.out.println("Sorry, we were not able to book a
window seat. But do have an aisle seat.");
                    printBoardingPass(seatnumber);
                }
            }
            else {
                System.out.println("You are in luck, we have a window seat
available!");
                printBoardingPass(seatnumber);
            }
        }
        else if (choice == 2) {
            seatnumber = bookAisle();
            if (seatnumber == -1) {
                seatnumber = bookWindow();
                if (seatnumber != -1) {
                    System.out.println("Sorry, we were not able to book an aisle seat. But do have a window seat.");
                    printBoardingPass(seatnumber);
                }
            }
            else {
                System.out.println("You are in luck, we have an aisle seat
available!");
```

```

        printBoardingPass(seatnumber);
    }
}
else {
    System.out.println("Invalid choice made. Please
try again!");
    choice = 0;
}
if (seatnumber == -1) {
    System.out.println("We are sorry, there are no window or aisle seats available.");
    System.out.println();
}
System.out.print("Please enter 1 for window, 2 for aisle, or 0 to exit: ");
choice = s.nextInt();
}
}
private static int bookWindow() {
    for (int i = 0; i < 6; i++) {
        if (seats[i] == 0) {
            seats[i] = 1;
return i + 1;
        }
    }
    return -1;
}
private static int bookAisle() {
    for (int i = 6; i < 12; i++) {
if (seats[i] == 0) {
seats[i] = 1;
return i + 1;
        }
    }
    return -1;
}
private static void printBoardingPass(int seatnumber) {
    Date timenow = new Date();
    System.out.println();
    System.out.println("Date: " + timenow.toString());
    System.out.println("Boarding pass for seat number: " + seatnumber);
    System.out.println("This ticket is non-refundable and non-transferable.");
    System.out.println("Please be courteous, do not smoke. Enjoy your trip.");
    System.out.println();
}
}

```