

GROUP 5 - CASE STUDY 3 (AIRPLANE TICKETING)

GROUP MEMBERS

Name: Teh Jing Ling

Matric No: A20EC0228

Name: Wong Hui Shi

Matric No: A20EC0169

Name: Eunice Lim Xian Ni

Matric No: A20EC0034

PSEUDOCODE

1. Start
2. Set day, year, month, date, dest, price
3. Print "Please fill in the departure date."
4. Print "U=Sunday, M=Monday, T=Tuesday, W=Wednesday, H=Thursday, F=Friday, S=Saturday"
5. Print "Day: "
6. Read day
7. Print "Please fill in the year between 2020 and 2022, inclusive."
8. If ((day == 'M') || (day == 'T') || (day == 'W') || (day == 'H') || (day == 'F') || (day == 'S') || (day == 'U'))
 - 8.1 Print "Year: "
 - 8.2 Read year
 - 8.3 Go to step 10
9. Else
 - 9.1 Print "INVALID"
 - 9.2 Go to step 24
10. End_if-else
11. If ((year >= 2020) && (year <= 2022))
 - 11.1 Print "Month: "
 - 11.2 Read month
 - 11.3 Go to step 13
12. Else
 - 12.1 Print "INVALID"
 - 12.2 Go to step 24
13. End_if-else
14. If ((month >= 1) && (month <= 12))
 - 14.1 Print "Date: "
 - 14.2 Read date
 - 14.3 Go to step 16
15. Else
 - 15.1 Print "INVALID"
 - 15.2 Go to step 24
16. End_if-else
17. If (((date >= 1) && (date <= 31)) && (date != 29))
 - 17.1 Print "Destination: Bandar Seri Begawan = 1, Manila = 2, Phnom Penh = 3, Siem Reap = 4, Hanoi = 5"
 - 17.2 Print "Please enter a destination: "
 - 17.3 Read dest
 - 17.4 Go to step 19
18. Else
 - 18.1 Print "INVALID"
 - 18.2 Go to step 24
19. End_if-else
20. If (((date <= 11) && (date >= 5)) && (year == 2020) && (month == 11))

21.1 Switch (dest)

21.1.1 Case 1: Calculate price = 2×1499

Print price

Break

21.1.2 Case 2: Calculate price = 2×1899

Print price

Break

21.1.3 Case 3: Calculate price = 2×2099

Print price

Break

21.1.4 Case 4: Calculate price = 2×1909

Print price

Break

21.1.5 Case 5: Calculate price = 2×1129

Print price

Break

21.1.6 Default: Print "INVALID"

21.2. Endswitch

22. Else

22.1 Switch (dest)

22.1.1 Case 1: price = 1499

Print price

Break

22.1.2 Case 2: price = 1899

Print price

Break

22.1.3 Case 3: price = 2099

Print price

Break

22.1.4 Case 4: price = 1909"

Print price

Break

22.1.5 Case 5: price = 1129

Print price

Break

22.1.6 Default: Print "INVALID"

22.2 Endswitch

23. End_if-else

24. End