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| **Faculty of Computing and Information Technology** | |
| **Assignment**  **May 2024 Semester** | |
| |  |  |  | | --- | --- | --- | | **Course Code** | **:** | AMCS1113 | | **Course Title** | **:** | Computer Architecture | | |
| **Students’ Name &**  **Students’ ID No. :** Name: **Tan Shu Jun** ID. No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name: **Ng Jie Ying** ID. No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Name: **Goh Xue Rou** ID. No.: **24PMD03454**  Name: **Law Tian Xiang** ID. No.: **24PMD02153**  **Programme\* : DCS1(S1)**  **Tutorial Group : Group 1**  **Tutor’s Name : Yeong Liang Ooi**  **Submission Date : Week 12, Friday, before 12 noon** | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Members’**  **Name** | | | **Contribution %**  **(Total should be 100%)** | **Members’ Signature** | **Total Marks**  **(100 marks)** | | | 1. **Tan Shu Jun** | | |  |  |  | | 1. **Ng Jie Ying** | | |  |  |  | | 1. **Goh Xue Rou** | | |  |  |  | | 1. **Law Tian Xiang** | | |  |  |  | | **Date of submission**  **(to-be filled by the students)** | **:** |  | | | | | **Date received**  **(to-be filled by the tutor received)** | **:** |  | | | | | |

Semester:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Course Code & Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Declaration**

**I/We confirm that I/we have read and shall comply with all the terms and conditions of TAR University College’s plagiarism policy.**

**I/We declare that this assignment is free from all forms of plagiarism and for all intents and purposes is my/our own properly derived work.**

**I/We further confirm that the same work, where appropriate, has been verified by anti-plagiarism software \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *(please insert).***

Signature(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [By all members]

Name(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [By all members]

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Industry selected

Malaysia Airline

# Company Background

Malaysia Airlines is the flag carrier of Malaysia and a member of the oneworld airline alliance. The company, Malaysia Airlines Berhad (MAB) commenced operations as the national carrier on 1 September 2015 when Malaysian Airline System (MAS) was dissolved from Bursa Malaysia in 2014 and subsequently ceased operations on August 31, 2015.

The airline began as Malayan Airways Limited, and flew its first commercial flight in 1947. It was then renamed as Malaysian Airways after the formation of the Federation of Malaysia in 1963. In 1966, the airline was renamed Malaysia Singapore Airlines (MSA) and in 1972 Malaysian Airline System (MAS).

Malaysia Airlines has a long and proud history of a product and brand synonymous with outstanding, warm hospitality. The national flag carrier has won numerous awards from the aviation industry, being crowned 'The World's 5-Star Airline' by Skytrax multiple times (2009, 2012 and 2013) and recognition from the World Travel Awards as 'Asia's Leading Airline' (2010, 2011 and 2013).

It has an impeccable track record of contributing to national development and has been a talent factory for skilled employees, especially its engineers, pilots and cabin crew. The airline has served as a critical enabler to connect Malaysia to the world, while simultaneously integrating the nation. As a global network, it offers the best way to fly to, from and around Malaysia.

Serving more than 50 destinations worldwide and operating over 300 flights a day, Malaysia Airlines is part of the Malaysia Aviation Group (MAG).

As a member of oneworld, Malaysia Airlines offers the best connectivity with seamless journeys to more than 1000 destinations across 150 plus countries and access to over 650 airport lounges worldwide

Malaysia Airlines operates flights from its home base, Kuala Lumpur International Airport, and offers connectivity across the globe, including Europe, the Middle East, Australasia, North and South Asia, and Southeast Asia.

# Propose function to be include

DS is data segment

CS is code segment

U = translate

DS is storing data, like variable

CS is like instruction for code, (addition) and

R for registers

T= trace, execute the command at location IP

# Proposed formula used

* Calculate the quantity of ticket (+)
* Calculate the remaining seats available (-)
* Calculate ticket price (+)
* Calculate reward points (+ / -)
* Calculate refund amount (+ / -)