Explanation on the usage of each variable & array IN the solution

# Task 1: Usage of Variables & Arrays

1. UpTime : ARRAY[1:4]

*Datatype*: STRING

*Usage*: Used to store each train journey’s departure (leaving the foot of the mountain) hour.

1. UpSeats : ARRAY[1:4]

*Datatype*: INTEGER

*Usage*: Used to store the total number of tickets available for each train journey going up the mountain (leaving the foot of the mountain).

1. UpPassengers : ARRAY[1:4]

*Datatype*: INTEGER

*Usage*: Used to store the total number of passengers travelled on each train journey going up the mountain (leaving the foot of the mountain).

1. UpMoneyTotal : ARRAY[1:4]

*Datatype*: REAL

*Usage*: Used to store the total money taken for each train journey going up (leaving the foot of the mountain).

1. DownTime : ARRAY[1:4]

*Datatype*: STRING

*Usage*: Used to store each train journey’s return hour (going down to the foot of mountain hour).

1. DownSeats : ARRAY[1:4]

*Datatype*: INTEGER

*Usage*: Used to store the total number of tickets available for each train journey going down (returning to the foot of mountain).

1. DownPassengers : ARRAY[1:4]

*Datatype*: INTEGER

*Usage*: Used to store the total number of passengers travelled on each train journey going down (returning to the foot of mountain).

1. DownMoneyTotal : ARRAY[1:4]

*Datatype*: REAL

*Usage*: Used to store the total money taken for each train journey going down (returning to the foot of mountain).

1. index *Datatype*: INTEGER

*Usage*: Used for FOR…TO…NEXT loop.

# Task 2: Usage of Variables

1. FreeTickets 🡨 0

*Datatype*: INTEGER

*Usage*: Used to store the calculated number of free tickets awarded/given to the user for the trip.

1. OneWayTicket 🡨 25.0

*Datatype*: CONSTANT REAL

*Usage*: Used to store the fixed price of one ticket. This variable is a constant.

1. OneWayCost 🡨 0.0

*Datatype*: REAL

*Usage*: Used to store the calculated one-way journey price for the trip.

1. choice

*Datatype*: BOOLEAN

*Usage*: Used to store the user input when asked if wants to buy ticket(s) or not.

1. NumOfPassengers

*Datatype*: INTEGER

*Usage*: To store the user input when asked for the number of passengers going on the trip.

1. UpTrip

*Datatype*: INTEGER

*Usage*: To store user input when asked for the Journey number corresponding to chosen departure hour (leaving the foot of the mountain hour).

1. DownTrip

*Datatype*: INTEGER

*Usage*: To store user input when asked for the Journey number corresponding to chosen return hour.

1. index

*Datatype*: INTEGER

*Usage*: Used for FOR…TO…NEXT loop

# Task 3: Usage of Variables

1. TotalAmount 🡨 0.0

*Datatype*: REAL

*Usage*: Used to store the calculated total amount of money taken in a single day.

1. TotalPassengers 🡨 0

*Datatype*: INTEGER

*Usage*: Used to store the total number of passengers travelled in a single day.

1. MostPassengers 🡨 0

*Datatype*: INTEGER

*Usage*: Used to store the greatest number of passengers travelled on a journey to help find the Journey hour with the greatest number of passengers.

1. MaxTrain

*Datatype*: STRING

*Usage*: Used to store the Journey hour with the greatest number of passengers.

1. index

*Datatype*: INTEGER

*Usage*: Used for FOR…TO…NEXT loop

For expected questions that can come in your exam for **Paper 22**

Check out this document created by [**Zafar Ali Khan**](https://github.com/zakonweb)

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Link to the **MJ 2021 PRM - Expected Questions - Variant 22.pdf** file: <https://github.com/zakonweb/Pre-release-Materials/blob/bb6aefaca06c9abca5e0da50ae8fdd1f2c813b7a/June-2021/OL/Variant%2022/Expected%20Questions/MJ%202021%20PRM%20-%20Expected%20Questions%20-%20Variant%2022.pdf>

Link to the GitHub Paper 22 Pre-release solution Repository:

https://github.com/Dunroxiz/Pre-release-Material-2021-P22-MJ-CIE