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.

2. `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).

3. `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).

4. `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).

5. `DownTime : ARRAY[1:4]`
   Datatype: STRING
   Usage: Used to store each train journey's return hour (going down to the foot of mountain hour).

6. `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).

7. `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).

8. `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).

9. `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.

2. `OneWayTicket ← 25.0`
   Datatype: CONSTANT REAL
   Usage: Used to store the fixed price of one ticket. This variable is a constant.

3. `OneWayCost ← 0.0`
   Datatype: REAL
   Usage: Used to store the calculated one-way journey price for the trip.

4. `choice`
   Datatype: BOOLEAN
   Usage: Used to store the user input when asked if wants to buy ticket(s) or not.

5. `NumOfPassengers`
   Datatype: INTEGER
   Usage: To store the user input when asked for the number of passengers going on the trip.

6. `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).

7. `DownTrip`
   Datatype: INTEGER
   Usage: To store user input when asked for the Journey number corresponding to chosen return hour.

8. `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.

2. `TotalPassengers ← 0`
   Datatype: INTEGER
   Usage: Used to store the total number of passengers travelled in a single day.

3. `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.

4. `MaxTrain`
   Datatype: STRING
   Usage: Used to store the Journey hour with the greatest number of passengers.

5. `index`
   Datatype: INTEGER
   Usage: Used for FOR…TO…NEXT loop