

PRE-RELEASE MATERIAL 2210/22 MJ-2021 solution PSEUDOCODE

TASK:1

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Constant OneWayTicket = 25
DECLARE TrainTime():String={"9:00", "11:00", "13:00", "15:00", "10:00", "12:00", "14:00",
"16:00"}
DECLARE totalseats() = {480, 480, 480, 480, 480, 480, 480, 640}
DECLARE occupiedseat() = {0, 0, 0, 0, 0, 0, 0, 0}
DECLARE trainmoney() = {0, 0, 0, 0, 0, 0, 0, 0}
DECLARE MaxPassangerTrain() = {0, 0, 0, 0, 0, 0, 0, 0}
DECLARE choice : Boolean
DECLARE numofpassanger, Trip, cost, discountedCost : Integer
DECLARE TwoWayTickets : Integer
DECLARE totalpassangers, totalamount : Integer 'For TASK3

PRINT ("Welcome to TRAIN JOURNEY Display Screen")
FOR count = 1 To 8
    PRINT ("TrainNum:",count, "TrainTime:" , TrainTime(count))
    PRINT ("TotalSeats:", totalseats(count), "Ocuupied Seats:", occupiedseat(count))
    PRINT ("Train Money = " & trainmoney(count))
NEXT count

```

Task:2

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PRINT ("Do you want to Buy Tickets? True for yes and False for no")
INPUT choice
WHILE choice <> False
    PRINT ("Enter number of passengers for trip")
    INPUT numofpassanger
    totalpassangers = totalpassangers + numofpassanger
    PRINT ("SELECT any Train number: 1, 2, 3, 4, 5, 6, 7, 8")
    INPUT Trip
    occupiedseat(Trip) = occupiedseat(Trip) + numofpassanger
    totalseats(Trip) = totalseats(Trip) - numofpassanger
    cost = numofpassanger * OneWayTicket
    //Integer Division \ for discount of every 10th Passanger
    discountedCost = cost - (OneWayTicket * (numofpassanger \ 10))
    TwoWayTickets = discountedCost * 2
    trainmoney(Trip) = trainmoney(Trip) + discountedCost
    totalamount = totalamount + trainmoney(Trip)

For count = 1 To 8
    PRINT ("Train Num", count, "Train Time:", TrainTime(count))
    PRINT "Total seats:", totalseats(count), " Ocuupied Seats:", occupiedseat(count))
    PRINT("Train Money = ", trainmoney(count))

    IF totalseats(count) = 0 Then
        PRINT (TrainTime(count), " : Train is FULL : Booking CLOSED")
    Else
        PRINT (TrainTime(count), " : Seats available : Booking OPEN")
    End If
Next

PRINT ("Do you want to buy more Tickets? True for yes and False for no")
INPUT choice

END WHILE

```

Task:3

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DECLARE Maxtrain : String
PRINT (" ----- END OF THE DAY -----")
FOR count = 1 To 8
    If occupiedseat(count) > MaxPassangerTrain(count) Then
        MaxPassangerTrain(count) = MaxPassangerTrain(count) + occupiedseat(count)
        Maxtrain = TrainTime(count)
    End If
PRINT ("Train Num:", count, "Train Time:", TrainTime(count))
PRINT (" Total seats:", totalseats(count), " Ocuupied Seats: ", occupiedseat(count))
PRINT ("Train Money = " & trainmoney(count))
NEXT

PRINT ("Total Money Earned TODAY: ", totalamount)
PRINT ("Total Passangers travelled TODAY: ", totalpassangers)
PRINT ("Maxtrain Passanger train = ", Maxtrain)

END
```