|  |  |  |
| --- | --- | --- |
| Input | Processing | Output |
| EmpNumber  FirstName  LastName  Location  StartDate  EndDate  NumberDays  CarType  TotalKm  ClaimType | **# Constants**  DAYLY\_RATE = 85.00  KM\_RATE = 0.17  RENTED\_CAR\_RATE = 65.00  HST\_RATE = 0.15  BONUS1\_RATE = 100.00  BONUS2\_RATE = 0.04  BONUS3\_RATE = 45.00  BONUS4\_RATE = 50.00  **# Calculations**  TotalDays = EndDate – StartDate  PerDiemAmt = TotalDays \* DAYLY\_RATE  If CarType == “O”:  MilAmt = TotalKm \* KM\_RATE  Else CarType ==”R”:  MilAmt = TotalDays \* RENTED\_CAR\_RATE  **if** TotalDays > 3:  Bonus1 = BONUS1\_RATE  **else**:  Bonus1 = 0  **if** CarType == "R":  Bonus2 = 0  **elif** TotalKm > 1000 **and** CarType == "O":  Bonus2 = BONUS2\_RATE \* TotalKm  **else**:  Bonus2 = 0  **if** ClaimType == "E":  Bonus3 = TotalDays \* BONUS3\_RATE  **else**:  Bonus3 = 0  # Bonus 4  **if** StartDate.month == 12 **and** 15 <= StartDate.day <= 22:  Bonus4 = TotalDays \* BONUS4\_RATE  **else**:  Bonus4 = 0  Bonus = Bonus1 + Bonus2 + Bonus3 + Bonus4  ClaimAmt = PerDiemAmt + MilAmt + Bonus  HTS = ClaimAmt \* HTS\_RATE  ClaimTotal = ClaimAmt + HTS | EmpNumber  FirstName  LastName  Location  StartDate  EndDate  NumberDays  CarType  TotalKm  ClaimType  PerDiemAmt  MilAmt  Bonus  ClaimAmt  HST  ClaimTotal |