// Only solves for Light Vehicle

// numbers may differ from specs – but main ideas covered

Dcl-F HwyTollDsp Workstn;

DCL-S AdjustHour PACKED(2);

EXFMT TOLLINFO;

DOW NOT(\*IN03);

EXSR SetTollRate;

TollCharge = Kilometers \* TollRate;

If Transpndr = 'N' ;

NoTransp = 4.07;

Else;

NoTransp = 0;

ENDIF;

TotalDue = TollCharge + NoTransp;

\*IN99 = \*ON;

WRITE TollInfo;

EXFMT ShowToll;

\*IN99 = \*OFF;

IF \*IN03=\*OFF;

EXSR CLEAR;

EXFMT TollInfo;

ENDIF;

ENDDO;

EXFMT Instructor;

\*INLR = \*ON;

RETURN;

BEGSR SetTollRate;

EXSR AdjustTime;

Select;

When Vehicle = 'L';

EXSR LightVehicle;

When Vehicle = 'H';

EXSR HeavyVehicle;

When Vehicle = 'M';

EXSR MultVehicle;

ENDSL;

ENDSR;

BEGSR AdjustTime;

SELECT;

WHEN AMPM = 'PM' and Hour <> 12;

AdjustHour = Hour + 12;

WHEN AMPM = 'AM' AND HOUR = 12;

ADJUSTHOUR = 0;

OTHER;

ADJUSTHOUR = HOUR;

ENDSL;

ENDSR;

BEGSR LightVehicle;

Select;

When AdjustHour >= 19 or AdjustHour < 6;

TollRate = .2115;

When AdjustHour >= 16;

TollRate = .4055;

When AdjustHour >= 10;

TollRate = .2733;

When AdjustHour >= 9;

TollRate = .3347;

When AdjustHour >= 6;

TollRate = .3507;

ENDSL;

ENDSR;

BEGSR CLEAR;

TollRate = 0;

TollCharge = 0;

NoTransp = 0;

TotalDue = 0;

Kilometers = 0;

Vehicle = ' ';

AMPM = ' ';

Hour = 0;

Transpndr = ' ';

ENDSR;