seu	ıdo Code	: SD 1 Coursework -Task A, B, C Pseudo Code				
	START PR					
2.[DEFINE FU	NCTION validate_date_input				
	2.1.REPE					
	2.1.1TRY					
	2.1.	1.1.REPEAT				
	1	FRY				
		-PROMPT user to enter day in DD format.				
		-IF 1 <= day <= 31 THEN				
		-BREAK				
		-ELSE				
		-DISPLAY error message.				
		-ENDIF				
	E	XCEPT ValueErrror				
		-DISPLAY error message.				
	2.1.	1.2.UNTIL				
	2.1.	1.3.REPEAT				
	1	FRY				
		-PROMPT user to enter month in mm format.				
		-IF 1 <= month <= 12 THEN				
		-BREAK				
		-ELSE				
		-DISPLAY error message.				
		-ENDIF				
	E	XCEPT ValueErrror				
		-DISPLAY error message.				
	2.1.	2.1.1.4.UNTIL				
	2.1.	2.1.1.5.REPEAT				
	1	FRY				
		-PROMPT user to enter year in YYYY format.				
		-IF 2000 <= day <= 2024 THEN				
		-BREAK				
		-ELSE				
		-DISPLAY error message.				
		-ENDIF				
		EXCEPT ValueErrror				
		-DISPLAY error message.				
	2.1.	1.6.UNTIL				
	2.1.	1.7.REPEAT				
		Get the number of days in the month for the specific year				
	-IF day <= days_in_month THEN					
		-Return day,month,year				
	-	ELSE				
		-DISPLAY error message.				

	1		DICDLAY restarting research								
	\perp	+	-DISPLAY restarting message.								
	+	+	- BREAK and restart the entire process.								
	-	\perp	2.1.1.8.UNTIL								
	+	2.	2.1.2.EXCEPT								
	-		Display an error and restart the loop.								
	2	2.2U	NTIL								
		EFINE FUNCTION validate_continue_input()									
	-		3.1.REPEAT								
	_	_	3.1.1.PROMPT user for input ("Y" or "N")as continue_input.								
		3.1.2.IF input is valid THEN									
		3.1.2.1.RETURN continue_input									
		3.1.3.ELSE									
		3.1.3.1.DISPLAY message to enter "Y" or "N"									
	-	3.2.	JNTIL								
4			E FUNCTION process_csv_data()								
		4.1.	TRY								
			.1.1.Set counters to zero.								
		4	.1.2.Open the CSV file in 'r' mode.								
			4.1.1.1.Creates a CSV reader object (reader).								
			4.1.1.2.DOWHILE row in reader								
			Increment total vehicles for every row.								
			Count vehicle types.								
			-Total Bicycles								
			-Total Electic Vehicles								
			-Total Two-wheeled Vehicles								
			Count buses leaving Elm Avenue/Rabbit Road heading North								
		Count vehicles Making No Turns									
		Count speeding vehicles									
			Counts vehicles passing through specific junctions								
			Counts scooters passing through Elm Avenue/Rabbit Road								
			Count hours for the selected date								
			Count the number of vehicles passing through "Hanley								
			Highway/Westway" junction during each hour of the day.								
	_		4.1.3.Populate outcomes dictionary with calculated results.								
			4.1.4.Calculate peak traffic hours.								
	_	_	1.5.Formats the peak time as a list of readable strings.								
			4.1.6.Return outcomes.								
	'		4.2.EXCEPT FileNotFoundError								
		4.	4.2.1.Display an error message.								
!	5.DEFINE FUNCTION display_outcomes()										
		1	5.1.IF outcomes are invalid THEN								
		5	5.1.1.DISPLAY an error message.								

	5.1.2.Return				
	5.2. Constuct a formatted string of results.				
	5.3.Print the result.				
6.DEFINE FUNCTION save_results_to_file()					
	6.1.TRY				
	6.1.1.Constructing the data string				
	6.1.2.Open the file in append mode.				
	6.1.2.1. Write the formatted results string to the file.				
	6.1.3.Display a success message.				
	6.2.EXCEPT				
	6.1.3. Display an error message.				

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