**Sumarry project in credit\_card\_validator**

**Syntax:** #include: Preprocessor directive used to include header files in the program.

**using namespace std:** Using declaration to avoid writing std:: before standard library elements.

**string:** Data type to store strings.

**vector:** Data type to store a dynamic array.

**for loop:** Used for iteration over elements in an array or container.

**while loop:** Used for continuous execution of code until a specific condition is met.

**switch statement:** Used for multi-way branching based on the value of an expression.

**Function declaration and definition:** bool validate\_credit\_card(const string& credit\_card), bool validate\_credit\_card\_number(const string& credit\_card, const vector<string>& valid\_credit\_cards), string enter\_credit\_card(), and int main().

**Keywords:** const: Used to define constant variables.

**return:** Used to return a value from a function.

**if, else if, else:** Used for conditional branching.

do, while: Used for do-while loops.

**Header Files**: <iostream>: Input-output stream header file for handling input and output operations.

**<vector>:** Header file to work with dynamic arrays (vectors).

**<string>:** Header file for working with strings.

**<algorithm>:** Header file for using standard algorithms like find and all\_of.

**Functions:** validate\_credit\_card(const string& credit\_card): A function to check if a credit card number is valid by verifying that it contains only digits and has a minimum length of 10 digits.

validate\_credit\_card\_number(const string& credit\_card, const vector<string>& valid\_credit\_cards): A function to validate if the entered credit card number matches any of the predefined valid credit card numbers.

**string enter\_credit\_card():** A function to prompt the user to enter a 10-digit credit card number and validate it.

**bool:bool:** A data type representing a boolean value (either true or false). Functions with a return type of bool return true or false based on certain conditions.

**main function: main():** The entry point of the program, where execution begins and ends. It contains the main logic of the program, including the user interface, validation, and output.

Regenerate