Name: Sebastian Underwood

Date Created: 3/1/25 – 3/2/25

Program Description:  
This program questions the user for phone number, social security number, and zip code. The program then checks to see if each variable is valid, returning valid or invalid

Functions used in the Program (list in order as they are called): validatePhone, validateSSN, validateZip, and main are the functions used.

1. Function Name: validatePhone

Description: The function uses regular expressions to validate a phone number. It does this by checking the format the number, and the quantity of digits.

Parameters: Takes in phone to analyze from the main function

Variables: pattern, which checks the number to make sure it is valid, then sends valid or invalid back to the main function.

Logical Steps: First the phone number is sent to the function, then pattern gathers the information and validates it. In the end it returns valid or invalid.

Returns: if the phone number is not in the correct format, does not match the quantity of variables, or is not digits, it sends back invalid. If it matches format and quantity of digits, it sends back valid

2. Function Name: validateSSN

Description: This functions uses regular expressions to validate a social security number. It uses the data gathered from the main function to determine if the SSN is valid or invalid.

Parameters: ssn, which represents the social security number entered to be validated

Variables: pattern, which checks the number to make sure it is valid, then sends valid or invalid back to the main function.

Logical Steps: First the SSN is sent to the function, then pattern gathers the information and validates it. In the end it returns valid or invalid.

Returns: Invalid if SSN does not match the format or quantity of digits.

3. Function Name: validateZip

Description: The function uses regular expressions to validate zip code. It does this by checking the format the number, and the quantity of digits.

Parameters: Takes in zipCode to analyze from the main function

Variables: pattern, which checks the number to make sure it is valid, then sends valid or invalid back to the main function.

Logical Steps: First the SSN is sent to the function, then pattern gathers the information and validates it. In the end it returns valid or invalid.

Returns: if the SSN is not in the correct format, does not match the quantity of variables, or is not digits, it sends back invalid. If it matches format and quantity of digits, it sends back valid

3. Function Name: main

Description: Asks the user to enter a phone number, SSN, and ZIP code, validating it by calling the other functions, then giving valid or invalid back to the user

Parameters: none

Variables: phone, which represents the phone number. This is sent to validatePhone. ssn, which is sent to validateSSN. Last is zipCode, which is sent to validateZip.

Logical Steps: First, the function asks for the phone number, then social security number, then the zip code. The function then calls the other three functions, passing this information to each respective function. The other functions return valid or invalid, then this function prints to the user, which piece of data is valid, and which is invalid.

Returns: If data is valid or not, it prints.

Link to your repository: [Upload files · garner4232/-COP2373](https://github.com/garner4232/-COP2373/upload/main)

A screenshot of a computer

AI-generated content may be incorrect.