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 **Date Created:** October 12, 2025

Program Description:

This program asks the user to enter a phone number, Social Security Number , and ZIP code. It then checks if each input is valid using regular expressions. After validating, the program displays whether each one is valid .

Functions used in the Program:

**1. Function Name:** valid\_phone

* **Description:** Checks if the phone number entered by the user matches a valid U.S. phone number format (like 123-456-7890 or (123) 456-7890).
* **Parameters:** phone – the user’s input string for a phone number.
* **Variables:** None
* **Steps:**
  + Use a regular expression to check the phone number format.
  + Return True if it matches, otherwise False.
* **Returns:** Boolean (True or False)

**2. Function Name:** valid\_ssn

* **Description:** Checks if the Social Security Number entered follows the correct format (123-45-6789).
* **Parameters:** ssn – the user’s input string for an SSN.
* **Variables:** None
* **Steps:**
  + Use a regular expression to match the SSN pattern.
  + Return True if valid, otherwise False.
* **Returns:** Boolean (True or False)

**3. Function Name:** valid\_zip

* **Description:** Checks if the ZIP code entered is valid (like 12345 or 12345-6789).
* **Parameters:** zip\_code – the user’s input string for a ZIP code.
* **Variables:** None
* **Steps:**
  + Use a regular expression to match ZIP or ZIP+4 format.
  + Return True if valid, otherwise False.
* **Returns:** Boolean (True or False)

**4. Function Name:** main

* **Description:** Runs the program, gets input from the user, and displays whether each input is valid.
* **Parameters:** None
* **Variables:**
  + phone → phone number entered by user
  + ssn → SSN entered by user
  + zip\_code → ZIP code entered by user
* **Steps:**
  + Ask the user for a phone number, SSN, and ZIP code.
  + Call the validation functions for each input.
  + Print whether each one is valid or not.
* **Returns:** None (prints results)

Logical Steps (Program Flow):

1. User enters a phone number, SSN, and ZIP code.
2. Each input is checked using its own validation function.
3. Each function uses a regular expression to verify the correct pattern.
4. The program prints whether each value is valid (True) or invalid (False).

**Link to your repository:**  
[**https://github.com/facundolambrecht08/COP2373**](https://github.com/facundolambrecht08/COP2373)

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| *Valid* |  |
| *Invalid* |  |