

Question: 8. User Verification

You are developing a C# console application to verify a user's phone number.

Class: User

In the class `User`, implement the following **public properties**:

Class Property Name Data Type

User Name string

User PhoneNumber string

Class: Program

Implement the following method in the `Program` class:

Method: ValidatePhoneNumber

```
public User ValidatePhoneNumber(string name, string phoneNumber)
```

Description:

This method should:

1. Check whether the **length of phoneNumber is exactly 10**.
2. If the length is **10**:
 - Create a `User` object.
 - Copy name and phoneNumber into it.
 - Return the object.
3. If the length is **not 10**, then:
 - Throw a **user-defined exception** called `InvalidPhoneNumberException` with the message:

```
Invalid phone number
```

Note:

- The **Exception object itself should display this message**.
 - To do this, create a class `InvalidPhoneNumberException` that inherits from the built-in `Exception` class.
 - If the phone number does not meet the requirement, this method **must throw** `InvalidPhoneNumberException`.
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In the Main Method:

1. Get input for:
 - Name
 - Phone Number
2. Call `ValidatePhoneNumber()` inside a `try-catch` block.
3. If a valid object is returned, display a success message.
4. If an exception occurs, catch it and print the exception message.

Output is case-sensitive.
