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**Problem Statement:**

Write Program to validate following data:

EmailID, Mobile No. and Name.

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Text.RegularExpressions;

namespace Exp\_7

{

class Program

{

static void Main(string[] args)

{

// Regular expressions for mobile number, email address, and name

string mobileRegex = @"^\d{10}$";

string emailRegex = @"^[a-zA-Z0-9.\_%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$";

string nameRegex = @"^[a-zA-Z\s]+$";

bool exitRequested = false;

while (!exitRequested)

{

Console.WriteLine("Choose what you want to validate:");

Console.WriteLine("1. Name");

Console.WriteLine("2. Email");

Console.WriteLine("3. Mobile Number");

Console.WriteLine("4. Exit");

int choice;

if (!int.TryParse(Console.ReadLine(), out choice) || choice < 1 || choice > 4)

{

Console.WriteLine("Invalid choice. Please choose a number between 1 and 4.");

continue;

}

string userInput;

switch (choice)

{

case 1:

Console.WriteLine("Enter name:");

userInput = Console.ReadLine();

Console.WriteLine("Name - Valid: " + Regex.IsMatch(userInput, nameRegex));

break;

case 2:

Console.WriteLine("Enter email address:");

userInput = Console.ReadLine();

Console.WriteLine("Email - Valid: " + Regex.IsMatch(userInput, emailRegex));

break;

case 3:

Console.WriteLine("Enter mobile number:");

userInput = Console.ReadLine();

Console.WriteLine("Mobile Number - Valid: " + Regex.IsMatch(userInput, mobileRegex));

break;

case 4:

exitRequested = true;

break;

}

}

Console.WriteLine("Exiting program...");

}

}

}

**Output:**

