

Task 2: Loops and Iteration

Write a Java program that uses a for loop to display all the orders for a specific customer.

Implement a while loop to track the real-time location of a courier until it reaches its destination.

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading;
using System.Threading.Tasks;

namespace TaskTwo
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\nCourier Management System\n");

            Console.WriteLine("1.Display Order");
            Console.WriteLine("2.Track Location");
            Console.WriteLine("3.Exit");

            Console.WriteLine("\nEnter the Choice");
            int choice=int.Parse(Console.ReadLine());
            switch (choice)
            {
                case 1: DisplayOrders();
                    break;
                case 2: TrackLocation();
                    break;
```

```

        default: Console.WriteLine("Invalid Choice");
            break;
    }
}

static void DisplayOrders()
{
    string[,] orders = {
        {"101", "Mani"},
        {"102", "Vijay"},
        {"103", "Mani"},
        {"104", "kumar"},
        {"105", "david"},
        {"106", "Mani"}
    };

    Console.WriteLine("Enter customer name to view orders: ");
    string customerName = Console.ReadLine();
    bool found = false;

    Console.WriteLine("\nOrders for " + customerName + ":");
    for (int i = 0; i < orders.Length; i++)
    {
        if (orders[i,1].Equals(customerName, StringComparison.OrdinalIgnoreCase))
        {
            Console.WriteLine("Order ID: " + orders[i, 0]);
            found = true;
        }
    }

    if (!found)
    {
        Console.WriteLine("No orders found for " + customerName);
    }
}

```

```

    }

    static void TrackLocation()
    {
        int currentLocation = 0;

        Random rand = new Random();
        int distanceToDestination = rand.Next(5, 16);

        Console.WriteLine("\nCourier Tracking Started");
        Console.WriteLine("Destination Distance: " + distanceToDestination + " km");

        while (currentLocation < distanceToDestination)
        {
            currentLocation++;
            Console.WriteLine("Courier at " + currentLocation + " km...");
            Thread.Sleep(1000);
        }
        Console.WriteLine("Courier has reached the destination!");
    }
}

```

Output

Courier Management System

- 1.Display Order
- 2.Track Location
- 3.Exit

Enter the Choice

1

Enter customer name to view orders:

Mani

Orders for Mani:

Order ID: 101

Order ID: 103

Order ID: 106

Courier Management System

- 1.Display Order
- 2.Track Location
- 3.Exit

Enter the Choice

2

Courier Tracking Started

Destination Distance: 5 km

Courier at 1 km...

Courier at 2 km...

Courier at 3 km...

Courier at 4 km...

Courier at 5 km...

Courier has reached the destination!