## **Create lists**

1) var names = new List<string> { "<charan>", "Ana", "Felipe" };

foreach (var name in names)

{

Console.WriteLine($"Hello {name.ToUpper()}!");

}

OUTPUT:

Hello <CHARAN>!

Hello ANA!

Hello FELIPE!

Modify list contents:

var names = new List<string>

{ "<name>", "Sri", "charan" };

foreach (var name in names)

{

Console.WriteLine($"Hello {name.ToUpper()}!");

}

Console.WriteLine();

names.Add("Maria");

names.Add("Bill");

names.Remove("Ana");

foreach (var name in names)

{ Console.WriteLine($"Hello {name.ToUpper()}!");

}

Console.WriteLine($"My name is {names[0]}.");

Console.WriteLine($"I've added {names[2]} and {names[3]} to the list.");Console.WriteLine($"The list has {names.Count} people in it");

Output:Hello <NAME>!

Hello SRI!

Hello CHARAN!

Hello <NAME>!

Hello SRI!

Hello CHARAN!

Hello MARIA!

Hello BILL!

My name is <name>.

I've added charan and Maria to the list.

The list has 5 people in it

Search and sort lists:

var index = names.IndexOf("charan");

if (index != -1)

Console.WriteLine($"The name {names[index]} is at index {index}");

var notFound = names.IndexOf("Not Found");

Console.WriteLine($"When an item is not found, IndexOf returns {notFound}"); names.Sort();

foreach (var name in names)

{ Console.WriteLine($"Hello {name.ToUpper()}!");}

Output:

The name charan is at index 2When an item is not found, IndexOf returns –1

Hello <NAME>!

Hello CHARAN!

Hello BILL!

Hello MARIA!

Hello SRI!

Fibonacci series:

var fibonacciNumbers = new List<int> {1, 1};

while (fibonacciNumbers.Count < 20)

{ var previous = fibonacciNumbers[fibonacciNumbers.Count - 1];

var previous2 = fibonacciNumbers[fibonacciNumbers.Count - 2]; fibonacciNumbers.Add(previous + previous2);

}

foreach(var item in fibonacciNumbers) Console.WriteLine(item);

Output:

11235813213455891442333776109871597258441816765

Additional task:

#include<stdio.h>

void main()

{

int a=0,i;

for(i=1;i<6;i++)

{

a=a\*10+7;

printf("%d,",a);

}}