

# Lab 1 – Introduction to Mobile Programming

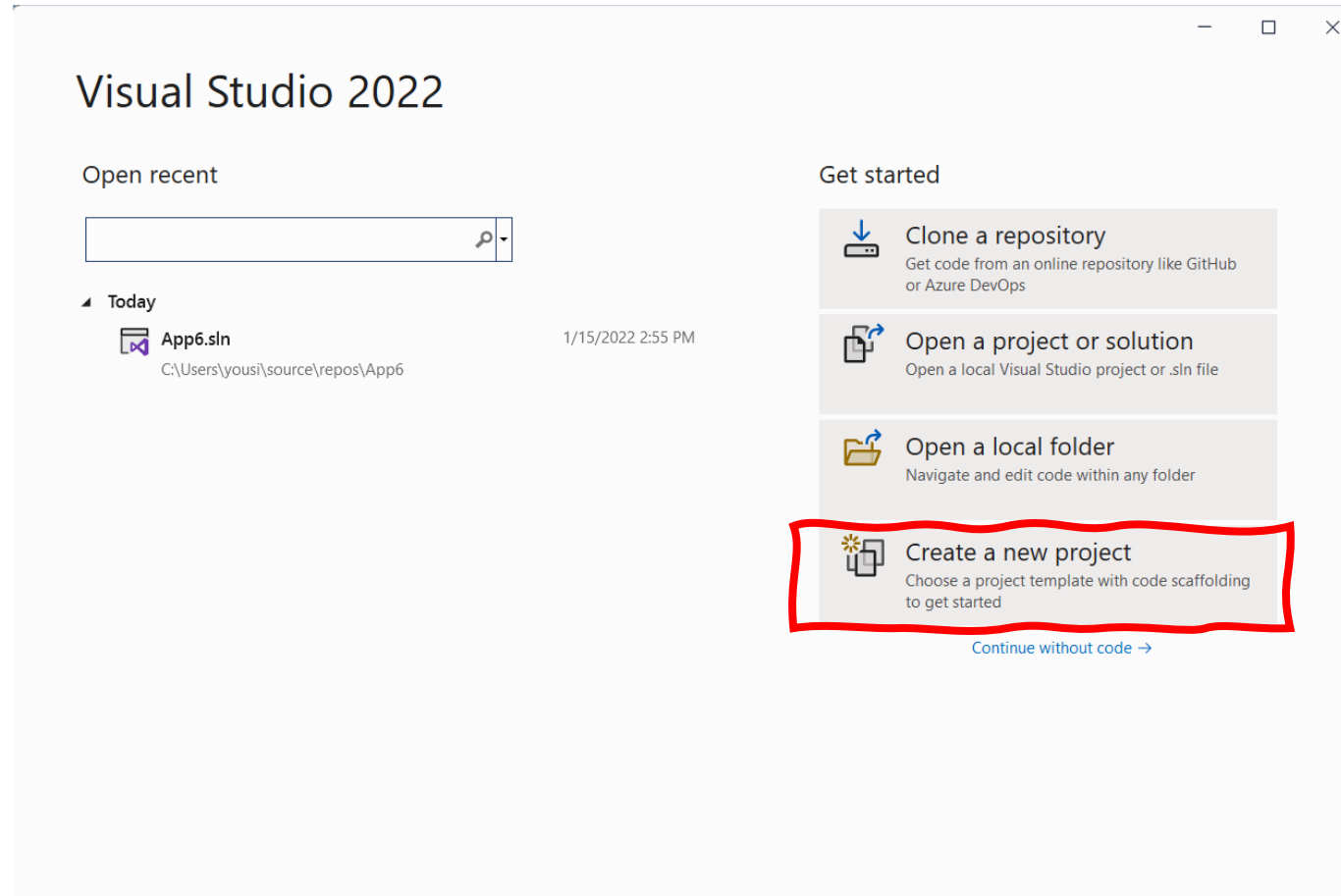
Mr. Yousif Garabet Arshak  
Computer Science Department  
University of Zakho  
yousif.arshak@uoz.edu.krd

# Outlines

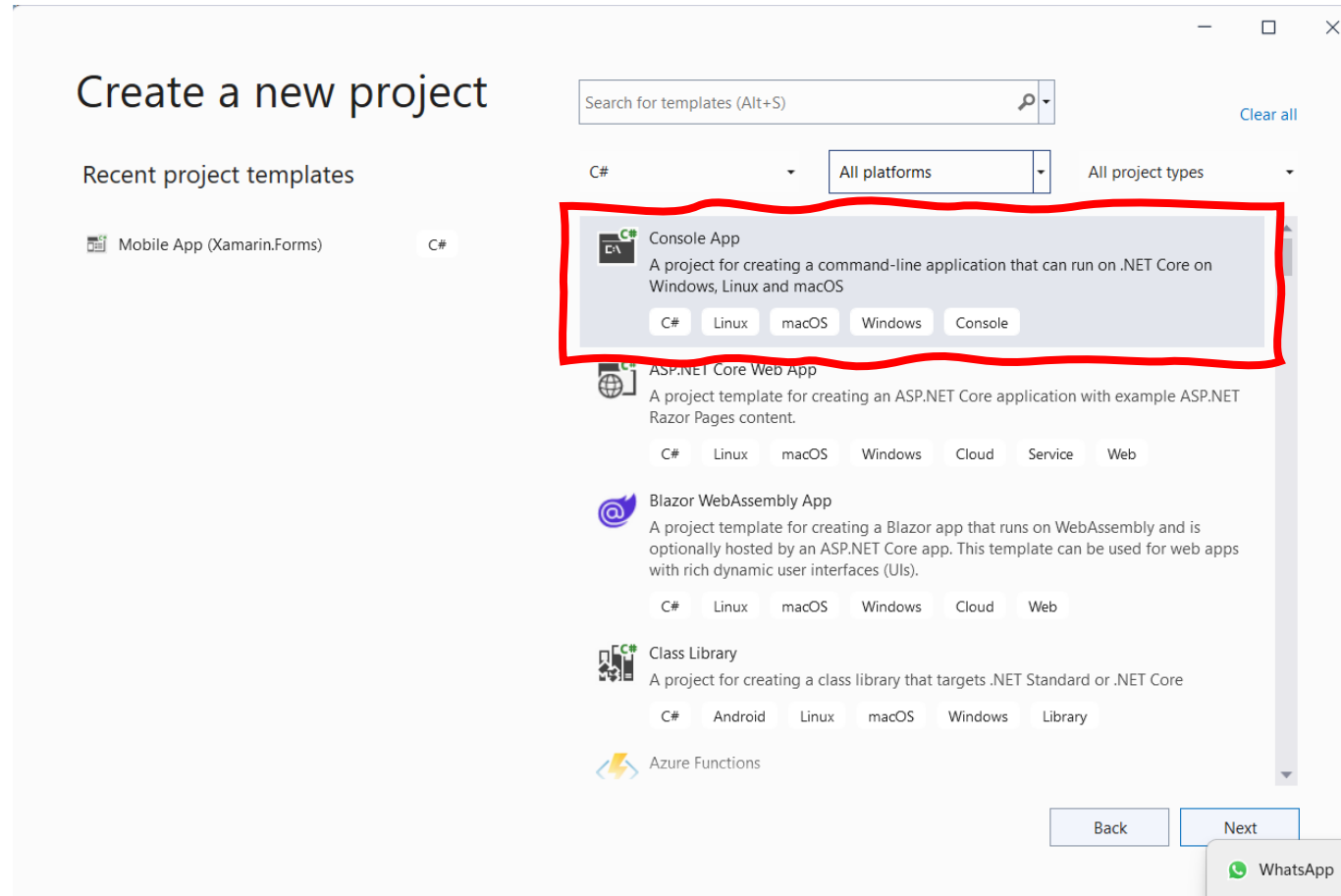
- Create Console App
- Syntax of C# if Statement
- Syntax of C# Nested If-Else Statement
- C# For & Foreach Loop
- Array
- Any Questions?



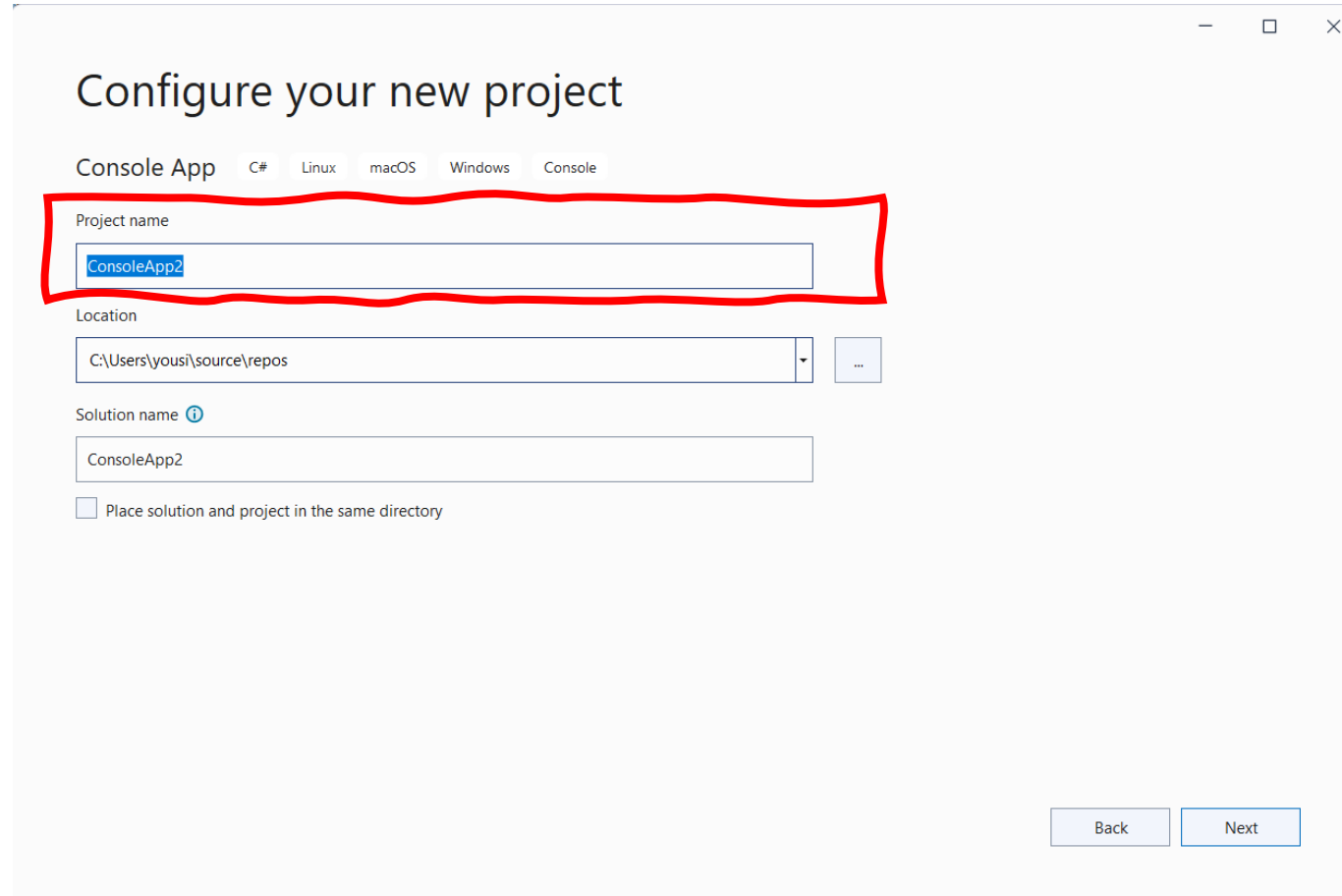
# Create Console App



# Choose Console App



# Give it a name



Configure your new project

Console App C# Linux macOS Windows Console

Project name

ConsoleApp2

Location

C:\Users\yousi\source\repos

Solution name ⓘ

ConsoleApp2

☐ Place solution and project in the same directory

Back Next



# Syntax of C# if Statement

```
if (bool_expression) {  
    // Statements to Execute if condition is true  
}
```

Example

```
int x = 20;  
if (x >= 10)  
{  
    Console.WriteLine("Number Greater than 10");  
}
```



# Syntax of C# Nested If-Else Statement

```
int x = 5, y = 20;
    if (x > y)
    {
        if (x >= 10)
        {
            Console.WriteLine("x value greater than or equal to 10");
        }
        else
        {
            Console.WriteLine("x value less than 10");
        }
    }
    else
    {
        if (y <= 20)
        {
            Console.WriteLine("y value less than or equal to 20");
        }
        else
        {
            Console.WriteLine("y value greater than 20");
        }
    }
    Console.WriteLine("Press Enter Key to Exit..");
```



# C# For & Foreach Loop

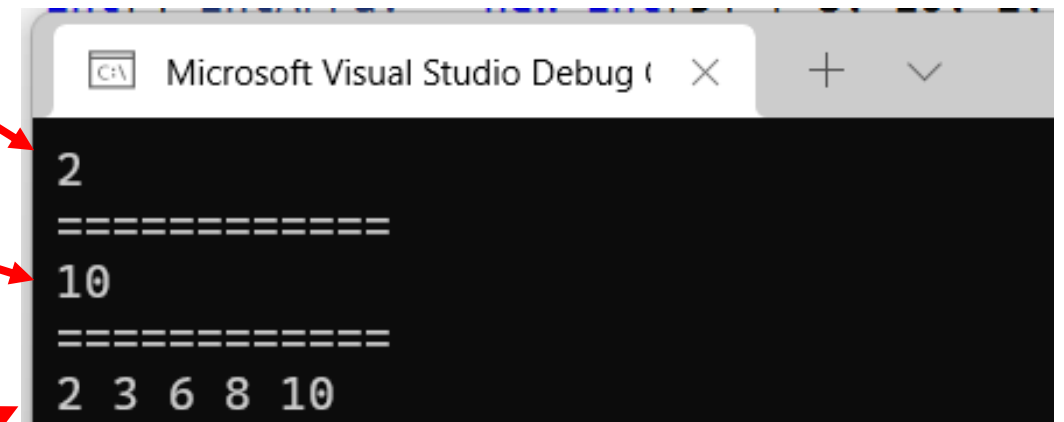
```
var names = new List<string>() { "John", "Tom", "Peter" };  
// print names using for loop  
for (int i = 0; i < names.Count; i++)  
{  
    Console.WriteLine(names[i]);  
}  
// print names using foreach loop  
foreach (string name in names)  
{  
    Console.WriteLine(name);  
}
```





# Array

```
int[] intArray = new int[5] { 8, 10, 2, 6, 3 };  
// Find minimum number  
Console.WriteLine(intArray.Min());  
Console.WriteLine("=====");  
// Find maximum number  
Console.WriteLine(intArray.Max());  
Console.WriteLine("=====");  
// Sort Array  
Array.Sort(intArray);  
// write array  
foreach (int i in intArray)  
    Console.Write(i + " ");
```

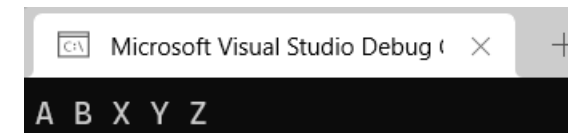


Microsoft Visual Studio Debug Console Output:

```
2  
=====  
10  
=====  
2 3 6 8 10
```

# sort string array

```
// sort string array
string[] stringArray = new string[5] { "X", "B", "Z", "Y", "A" };
Array.Sort(stringArray);
// write array
foreach (string str in stringArray) Console.Write(str + " ");
```



# Any Questions?

