

# Workshop on **C# Programming: Learn to Build**

Date :

Day 1 - 26, October 2018

Day 2 - 2, November 2018

Day 3 - 9, November 2018



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Young Engineers Society

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East West University  
Computer Programming Club

**C#**

Day 2

Lecture8: Method

# Method

## Types of method call:-

- call by value
- call by reference(keyword ref)
- call by output (keyword out)
- call by params (keyword params)

# Method

```
public static int callByValue(int a ,int b)
{
    int c = a + b;
    a = 200;
    return c;
}
static void Main()
{
    int a = 10;
    Console.WriteLine(callByValue(a,20));
    Console.WriteLine(a);
}
```

# Method

```
public static int callByRef(ref int x)
{
    x = 100;
}
static void Main()
{
    int value = 10;
    callByRef(ref value);
    Console.WriteLine(value);
}
```

# Method

```
public static void callByOut(out int a, out int b)
{
    a = 10;
    b = 20;
}
static void Main()
{
    int outVar1;
    int outVar2;
    callByOut(out outVar1, out outVar2);
    Console.WriteLine("call by out " +outVar1+" " +outVar2);
}
```

# Method

```
public static int callByParams(int a, params int[] ar1)
{
    int x = a;
    foreach (int b in ar1)
    {
        x += b;
    }
    return x;
}

static void Main()
{
    Console.WriteLine(callByParams(10));
    Console.WriteLine(callByParams(10,20));
    Console.WriteLine(callByParams(10,20,30));
}
```

# Method

```
public static int area(int height, int width=10)
{
    return height * width;
}
```

```
static void Main()
{
    Console.WriteLine(area(width: 20,height: 30));
    Console.ReadKey();
}
```



# Method

```
public static int area(int height, int width=10)
{
    return height * width;
}
```

```
static void Main()
{
    Console.WriteLine(area(height: 20));
    Console.ReadKey();
}
```

This slide is provided as a course material in the workshop named  
“Workshop on C# Programming: Learn to Build”.

Organized by-  
East West University Computer Programming Club (EWUCoPC)

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