

# Smit Vora

## Practical Demos

### Module – 1

#### Topics

##### 1. Create First C# Program "Hello World"

###### 1.1 What is Namespace?

- 

```
using System;
namespace Fintech
{
    class Fintech
    {
        public void loveFintech()
        {
            Console.WriteLine("I love Fintech");
        }
    }
}
using System; // Another Class/project
using Fintech
namespace Answer
{
    class Answer
    {
        static void Main(string[] args)
        {
            Fintech ft = new Fintech();
            ft.loveFintech();// displays "I Love Fintech"
        }
    }
}
```

## 1.2 What is class?

- Hello World Class Program

```
using System;
namespace HelloWorld
{
    class Hello {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello World!");
        }
    }
}
```

## 1.3 Variable And Method Declaration

- using System

```
namespace sum
{
    class Summation
    {
        public int summing(int n)
        {
            int sum = 0;
            for (int i=1;i<n+1;i++)
            {
                sum+=i;
            }
            return sum;
        }

        static void Main(string[] args)
        {
            Summation s = new Summation();
            Console.WriteLine("Sum is:{0}",s.summing(6));
        }
    }
}
```

```
// result is: Sum is 21
```

## 6. Understanding datatypes & variables with conversion

### 6.2 Datatype Conversion

- **Implicit Conversion**

```
using System;
namespace Casting{

class Implicit {

    // Main Method
    public static void Main(String []args)
    {
        int n= 24;
        long l = n;
        double d = l;

        Console.WriteLine("Int value " +n);
        Console.WriteLine("Long value " +l);
        Console.WriteLine("Float value " +d);
    }
}
// result is : Int Value : 24
                Long Value : 24
                Float Value : 24
```

- **Explicit Conversion**

```
using System;
namespace Casting{

class Explicit {

    // Main Method
    public static void Main(String []args)
    {
        float f = 765.12F;

        // Explicit Type Casting
        int n= (int)f;

        // Display Result
        Console.WriteLine("Value of n is " +n);
```

```

    }
  }
}

```

// result is : Value of n is 765

### 6.3 Boxing And Unboxing

```

using System;

class Converting {

    static public void Main()
    {
        int n = 38;
        // boxing
        object obj = num;

        // unboxing
        int n = (int)obj;

        // Display result
        Console.WriteLine("Value of ob object is : " + obj);
        Console.WriteLine("Value of n is : " + i);
    }
}

//result is : value of ob object is : 38
Value of n is : 38

```

## 7. Understanding Decision making & statements

### 7.1 if...else

```

int i = 47, j = 47;

if (i > j)
{
    Console.WriteLine("i is greater than j");
}
else if (i < j)
{
    Console.WriteLine("i is less than j");
}
else
{

```

```
    Console.WriteLine("i is equal to j");  
}  
//result is: I is equal to j
```

## 7.2 Switch

```
int x =37;  
  
switch (x % 2)  
{  
    case 0:  
        Console.WriteLine($"{x} is an even value");  
        break;  
    default:  
        Console.WriteLine($"{x} is an odd Value");  
        break;  
}  
  
//result is : 37 is an odd value
```