

## C# Method Declaration

**Method** is the building block of object-oriented programming. It combines related code together and makes program easier.

In C# method declaration, you can declare method by following way:

```
. <Access Specifier> <Return Type> <Method Name>(Parameter list)
. {
.     Body
. }
.
```

### Example

```
. public void add()
. {
.     Body
. }
```

In the example:

- the **public** is an **access specifier**
- **void** is a **return** data type that **return nothing**
- **add( )** is a method name
- There is no **parameter** define in **add( )** method.

If the function **returns integer** value, then you can define function as follow:

```
. public int add()
. {
.     Body
.     return integer_variable/value;
. }
```

If the function is **returning string** value, then you can define function as follow:

```
. public string printname()
```

```

. {
.     Body
.     return string_variable/value;
. }

```

You must remember:

- Whenever use return data type with method, must return value using **return keyword** from body
- If you don't want to return any value, then you can use **void** data type.

### Sample Program

```

. namespace Declaring_Method
. {
.     class Program
.     {
.         string name, city;
.         int age;
.
.         // Creating method for accepting details
.         public void acceptdetails()
.         {
.             Console.Write("\\nEnter your name:\\t");
.             name = Console.ReadLine();
.
.             Console.Write("\\nEnter Your City:\\t");
.             city = Console.ReadLine();
.
.             Console.Write("\\nEnter your age:\\t\\t");
.             age = Convert.ToInt32(Console.ReadLine)();
.         }
.
.         // Creating method for printing details
.         public void printdetails()
.         {

```

```

.      Console.Write("\n\n=====");
.      Console.Write("\nName:\t" + name);
.      Console.Write("\nCity:\t" + city);
.      Console.Write("\nAge:\t" + age);
.      Console.Write("\n\n=====\\n");
.      }
.
.
.      static void Main(string[] args)
.      {
.          Program p = new Program();
.          p.acceptdetails();
.          p.printdetails();
.          Console.ReadLine();
.      }
.  }
.  }

```

## Output

**Enter** your name: **Steven Clark**

**Enter Your City:** **California**

**Enter** your age: **47**

```
=====
Name: Steven Clark
City: California
Age: 47
=====
```

## GUIDELINE WHILE CREATING METHOD

- You can define multiple functions within a class.

If you are using return data type instead of void, then must return appropriate value with return keyword.