**1.To test this, let’s add a new controller under our current project i.e., “MVCTestProject” with the name “ParamsController”, write the below methods under the class**

**//Passing value to id is mandatory**

**public string Index1(int id)**

**//Passing value to id is optional and if not passed value will be "0"**

**public string Index2(int id = 0)**

**//Passing value to id is optional and if not passed value will be "null"**

**public string Index3(int? id)**

**//Passing value to id is optional and if not passed value will be "null"**

**public string Index3(int? id)**

**//Passing value to x is mandatory and if passed also it will not take it because of parameter name mis-match**

**public string Index4(int x)**

**//Passing value to x is optional and if passed also it will not take it because of parameter name mismatch**

**public string Index5(int? x)**

**//Passing value to Id is option because it is defined as type string & strings are by default Nullable (reference types)**

**public string Index6(string Id)**

**Execute the above methods as following:**

**IIS Express:**

<http://localhost:port/Params/Index1>

**http://localhost:port/Params/Index1/100 http://localhost:port/Params/Index2 http://localhost:port/Params/Index2/200 http://localhost:port/Params/Index3** [**http://localhost:port/Params/Index3/300**](http://localhost:port/Params/Index3/300)

**Local IIS:**

**http://localhost/MVCTestProject/Params/Index1 http://localhost/MVCTestProject/Params/Index1/100 http://localhost/MVCTestProject/Params/Index2 http://localhost/MVCTestProject/Params/Index2/200 http://localhost/MVCTestProject/Params/Index3 http://localhost/MVCTestProject/Params/Index3/300**

**Passing multiple parameters to Action method:**

**Now we can define action methods to accept 2 parameters with the names “id” & “name” and to test that add 2 new Action methods under our “TestController” class as following:**

**//Passing value to Id is mandatory and Name is optional**

**public string Index7(int Id, string Name)**

**//Passing values to Id and Name are optional**

**public string Index8(int? Id, string Name)**

**Execute the above methods as following:**

**IIS Express:**

**http://localhost:port/Params/Index7?Name=Raju&Id=700**

**Local IIS:**

[**http://localhost/MVCTestProject3/Params/Index7?Id=700&Name=Raju**](http://localhost/MVCTestProject3/Params/Index7?Id=700&Name=Raju)

**2.Using Query String:**

**by using Query String’s also we can pass values to Action methods and to test that add a new Action method into the “ParamsController” class as following:**

**public string Index9(int Pid, string Pname, double Price)**

**Now run the application by using the following URL:**

**IIS Express:**

[**http://localhost:port/Params/Index9?Price=3500&Pid=101&Pname=Shoes**](http://localhost:port/Params/Index9?Price=3500&Pid=101&Pname=Shoes)

**Local IIS:**

**http://localhost/MVCTestProject3/Params/Index9?Price=3500&Pid=101&Pname=Shoes**

**3.Without defining any parameters to the Action method also we can read Query String values in our code, to test that add a new Action method into the “ParamsController” class as following:**

**public string Index10()**

**return $"Pid: {Pid}; Pname: {Pname}; Price: {Price}";**

**}**

**Now run the application by using the following URL:**

**IIS Express:**

**http://localhost:port/Params/Index10?Pid=101&Pname=Shoes&Price=3500**

**Local IIS:**

**http://localhost/MVCTestProject3/Params/Index10?Price=3500&Pid=101&Pname=Shoes**

**4.Now let’s write another 2 methods to understand about Query String’s, 1 with-out parameters and 1 with parameters.**

**a)public string Validate1()**

**b)** **public string Validate2(string Name, string Pwd)**

**We can execute the above methods as following:**

**IIS Express:** [**http://localhost:port/Params/Validate1?Name=Raju&Pwd=Admin**](http://localhost:port/Params/Validate1?Name=Raju&Pwd=Admin)

**Local IIS: http://localhost/MVCTestProject3/Params/Validate1?Name=Raju&Pwd=Admin**