

Phase3-Practice Project: Assisted Practice

JMeter:

Assertions in JMeter:

Write a program to demonstrate XML and XML schema assertions in JMeter.

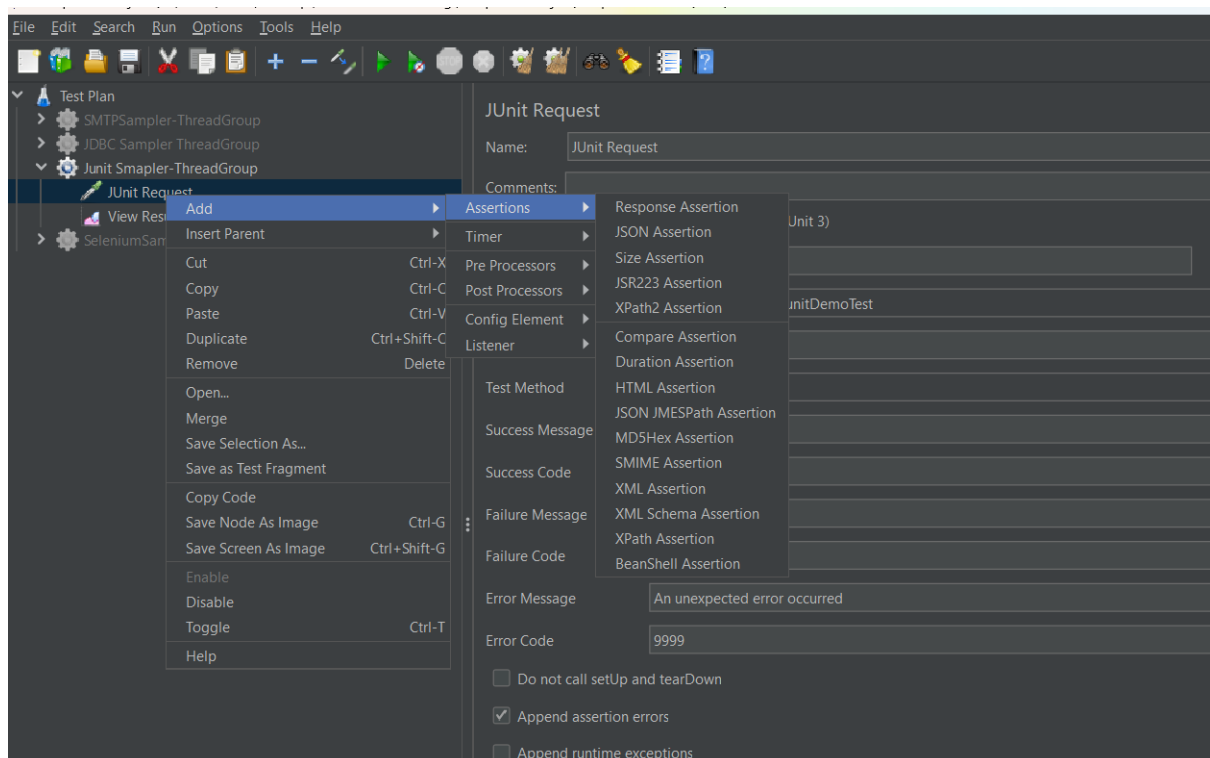
Write a program to demonstrate HTML assertions in JMeter.

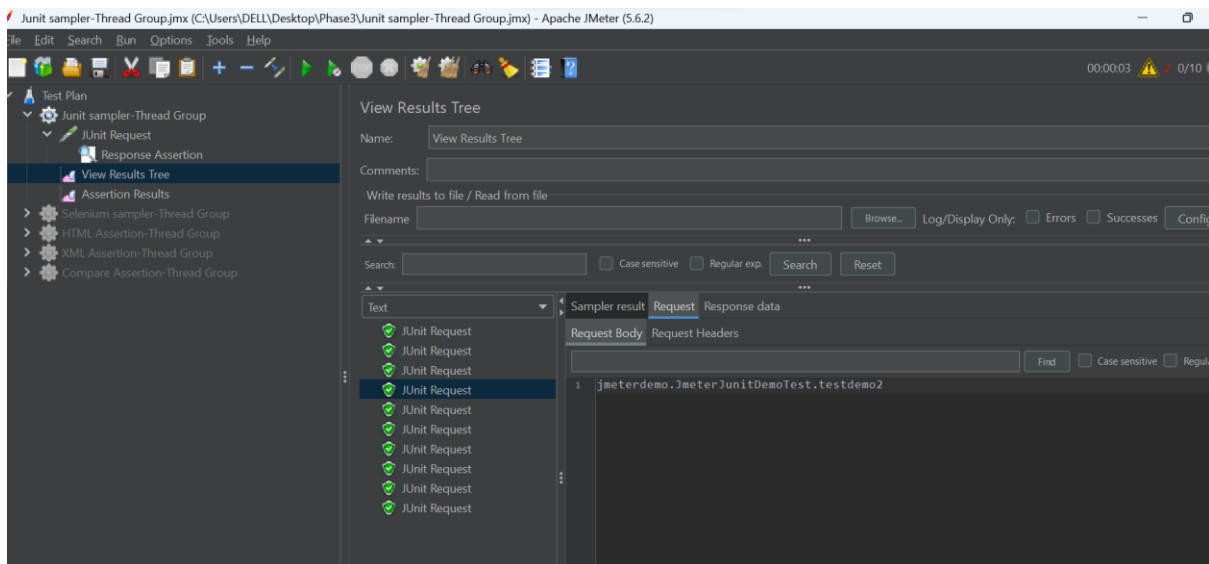
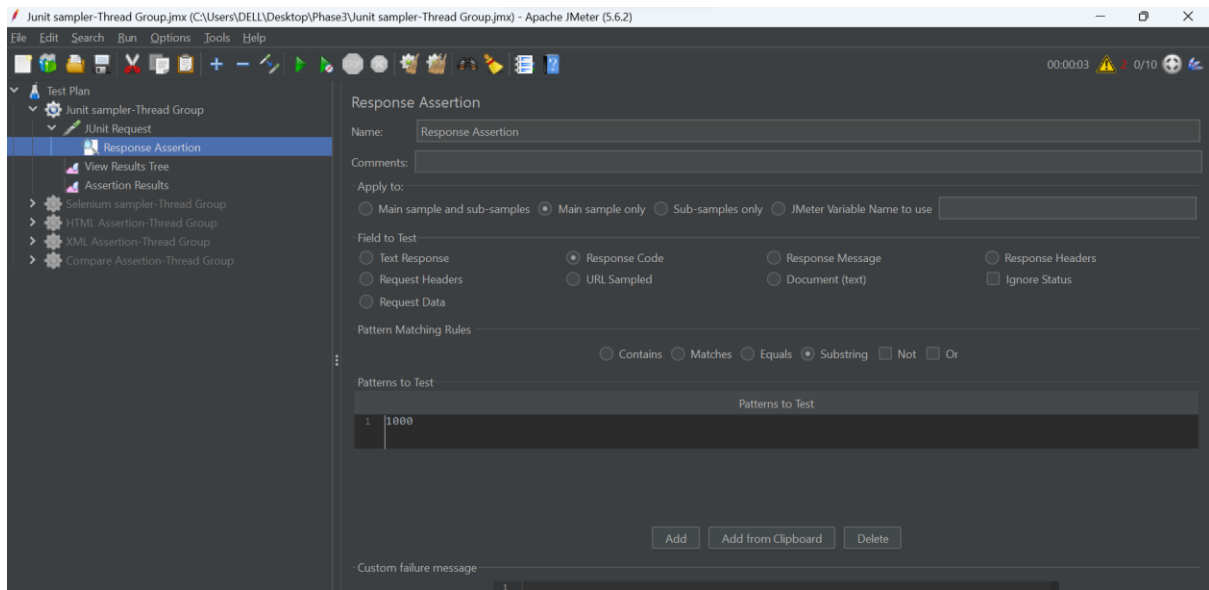
Write a program to demonstrate response assertions in Jmeter

Write a program to demonstrate XPath and Comparison assertions in JMeter.

1. Response assertion:

Take the junit Sampler request again → right click on junit sampler and add → assertion → Response assertion



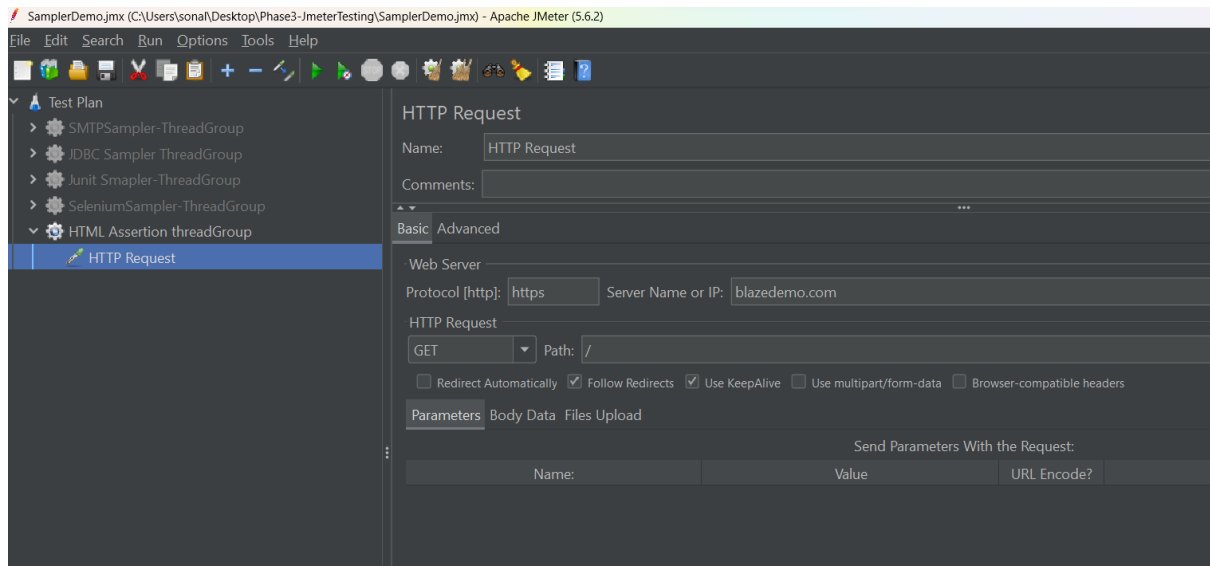


2. HTML Assertion

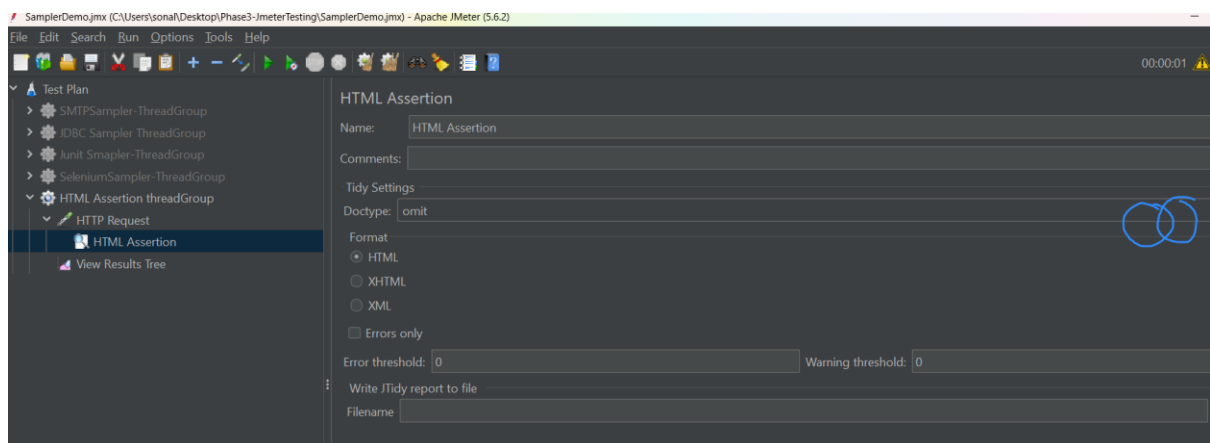
It captures errors and warnings on the HTML page that jmeter connects to

After which it can put those errors and warning in a file and save it.

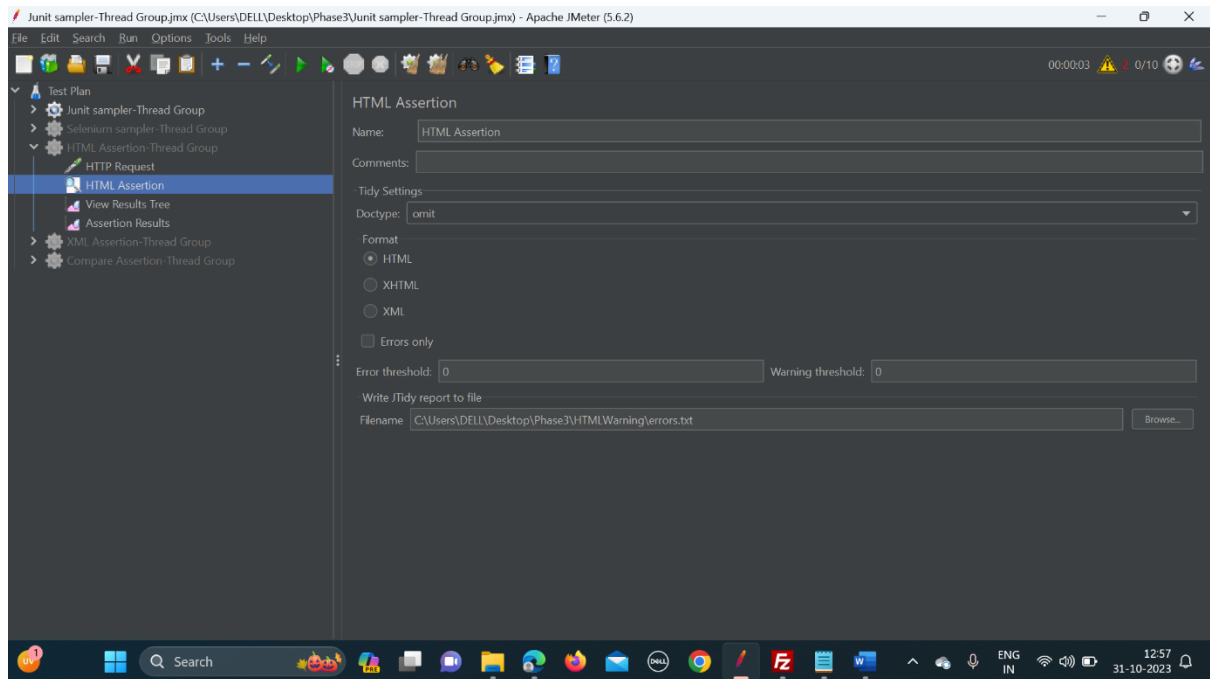
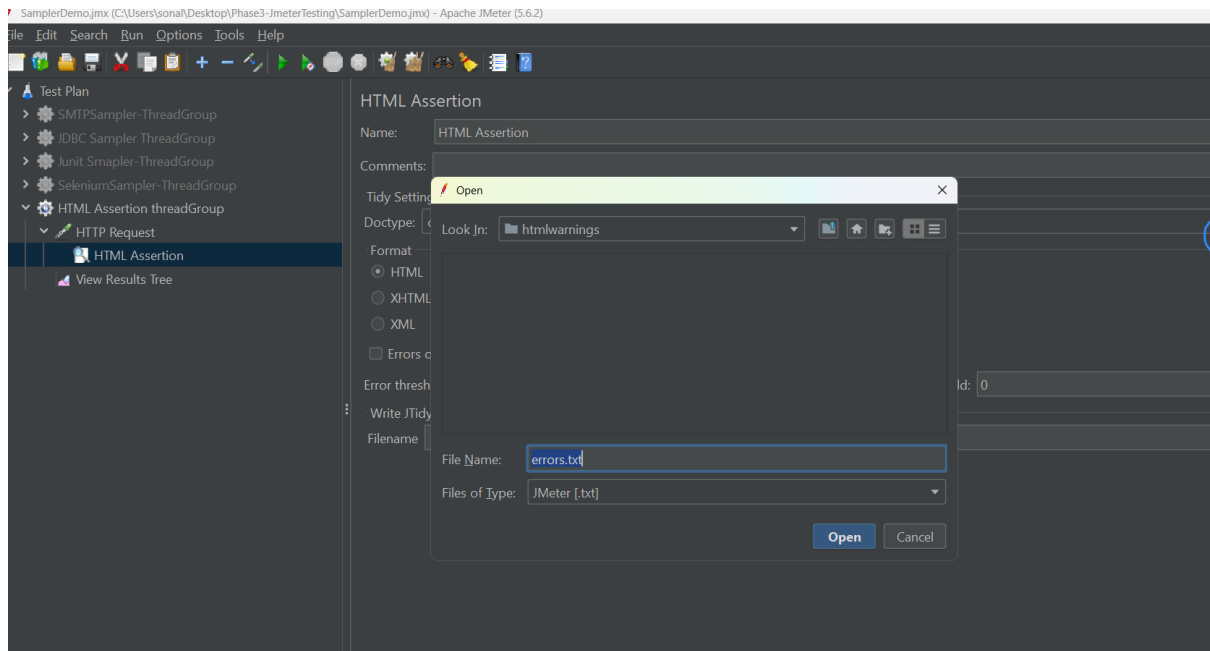
Create a Thread group → add sampler HTTP request

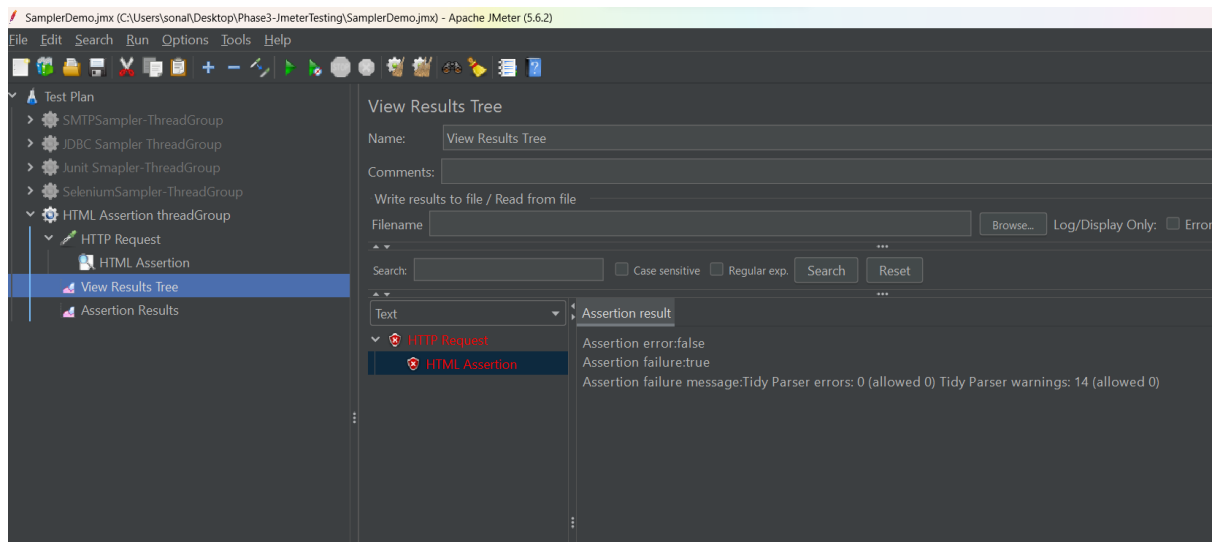


Add HTML assertion to http sampler



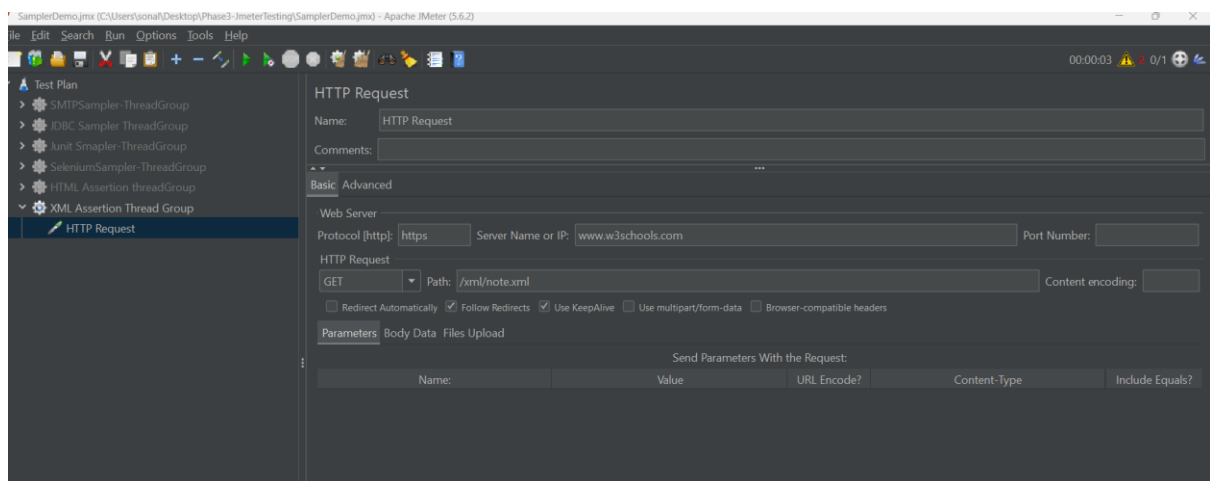
Create a new folder using browser button, also give the file name at the same time





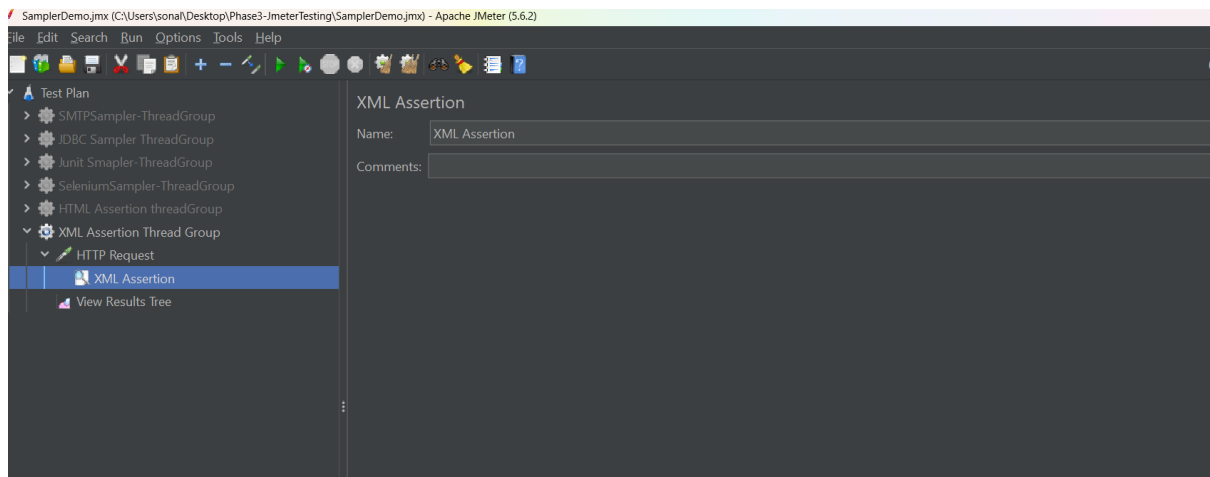
3. XML assertion

Create a Thread group → add sampler HTTP request

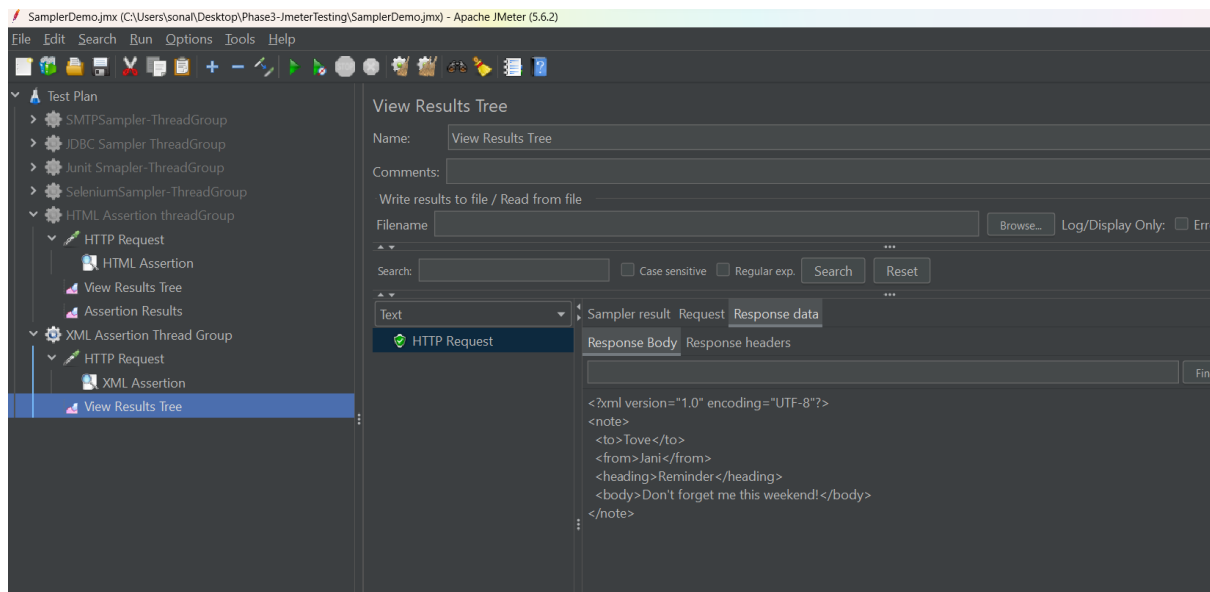


Add view results tree.

Go to Add → Assertions → XML Assertion



The assertion will just check if the response of the https request is an XML or not.



4. XPATH Assertion

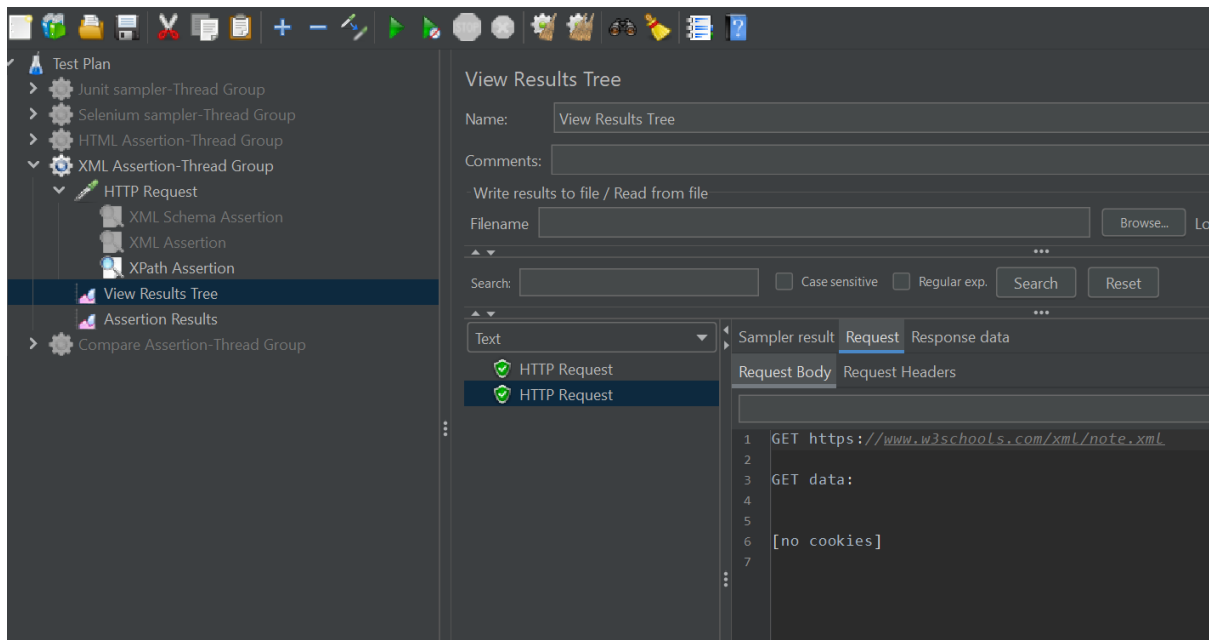
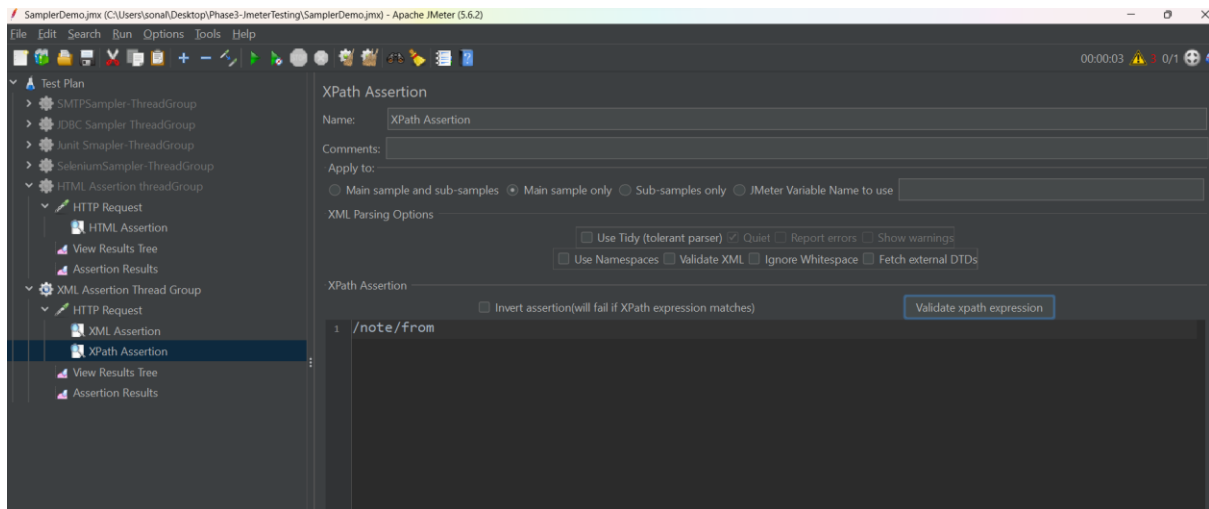
XPATH assertion check for availability of XML path in the response from http request

```
<note>
<to>Tove</to>
<from>Jani</from>
<heading>Reminder</heading>
<body>Don't forget me this weekend!</body>
</note>
```

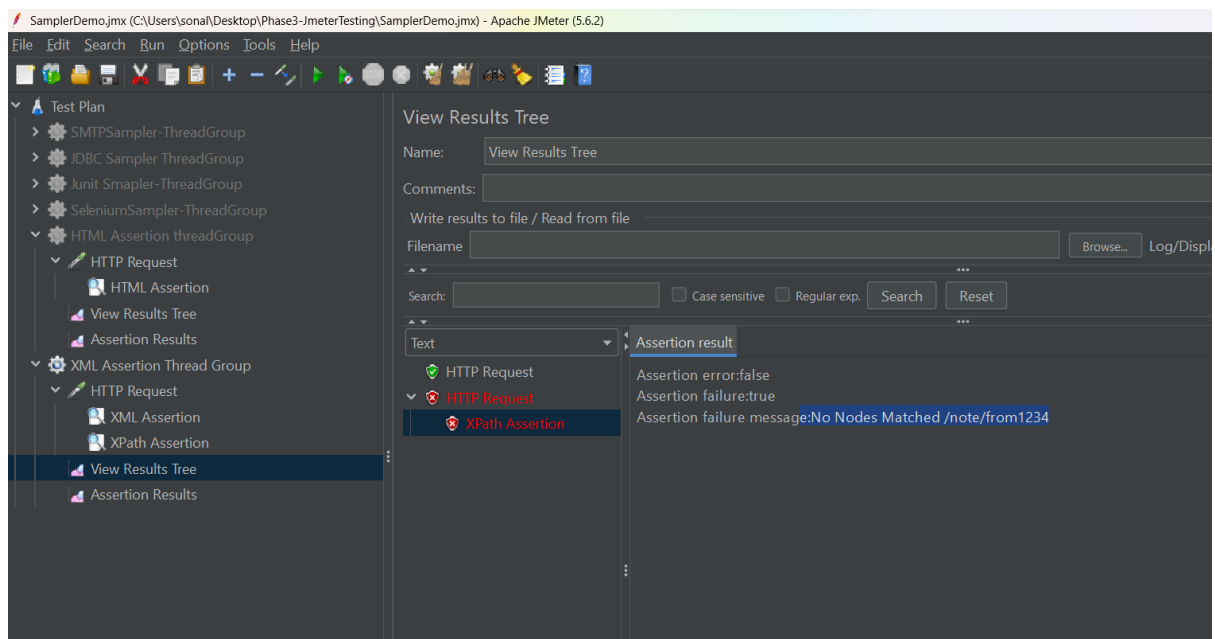
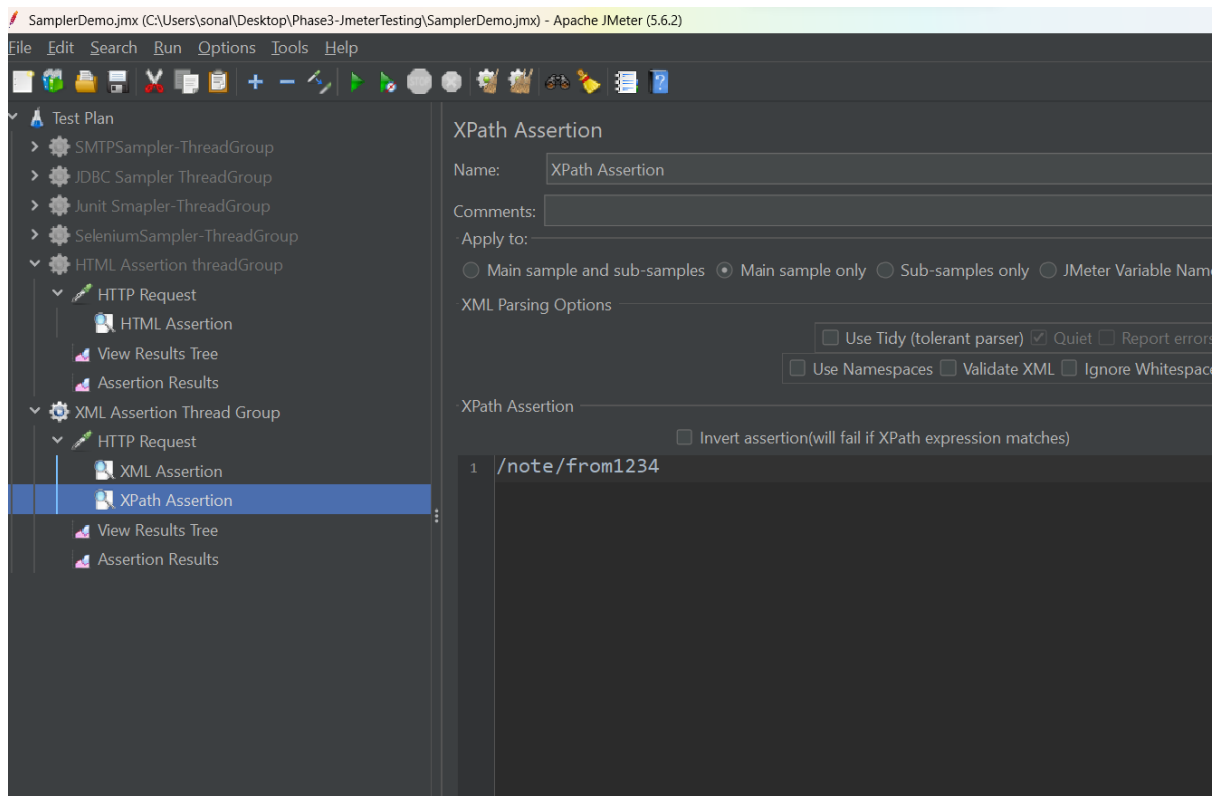
Here we can check and validate if we have xpath like : /not/to/from in the response

Go to Add→ Assertions→Xpath Assertion

Add view results tree—to view result.



If we give wrong xpath like: `/note/from1234`



5. XML schema Assertion:

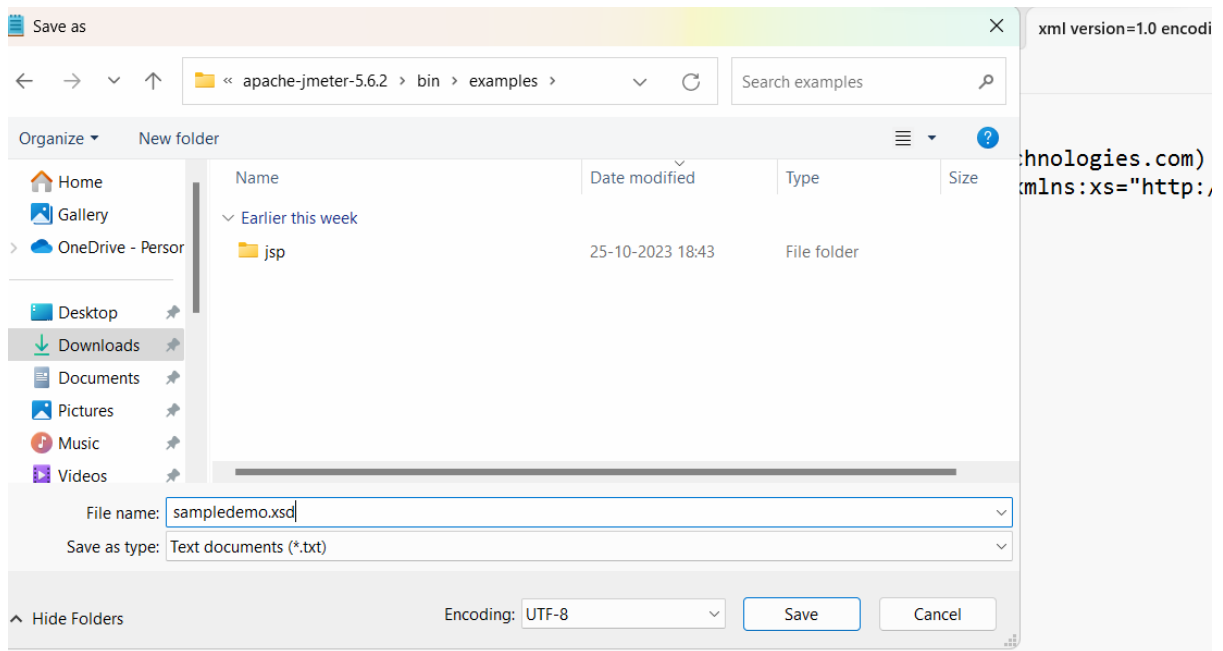
It just check if xml response is having a schema or not

Take your XML file and generate the schema for it:

```
<note>
<to>Tove</to>
<from>Jani</from>
<heading>Reminder</heading>
<body>Don't forget me this weekend!</body>
</note>
```

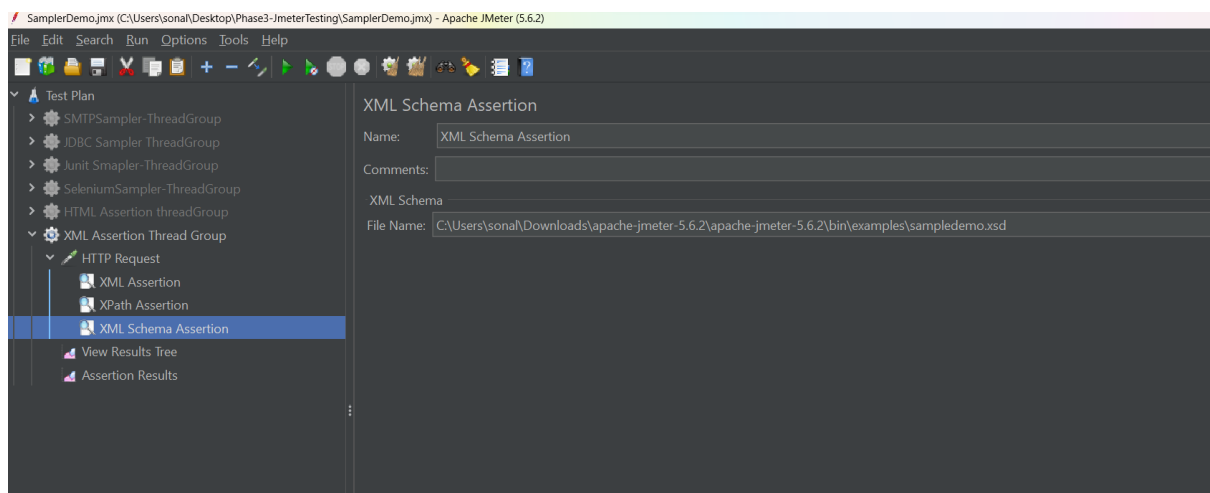
```
<?xml version="1.0" encoding="utf-8"?>
<!-- Created with Liquid Technologies Online Tools 1.0 (https://www.liq
uid-technologies.com) -->
<xs:schema attributeFormDefault="unqualified" elementFormDefault="quali
fied" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="note">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="to" type="xs:string" />
        <xs:element name="from" type="xs:string" />
        <xs:element name="heading" type="xs:string" />
        <xs:element name="body" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

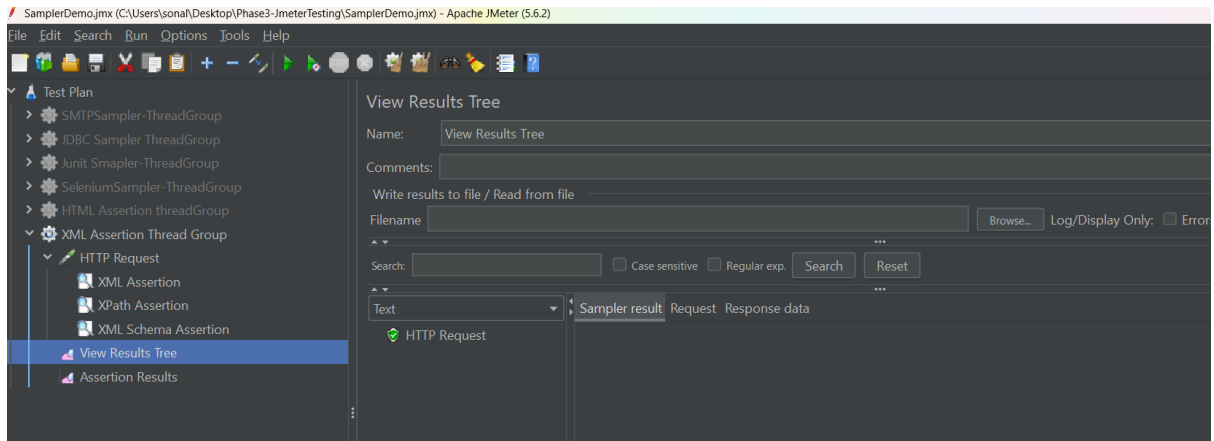
Save the XSD file in jmeter→bin→examples



Go to Add → Assertions → XML Schema Assertion.

We should provide the path of sampledemo in file name.





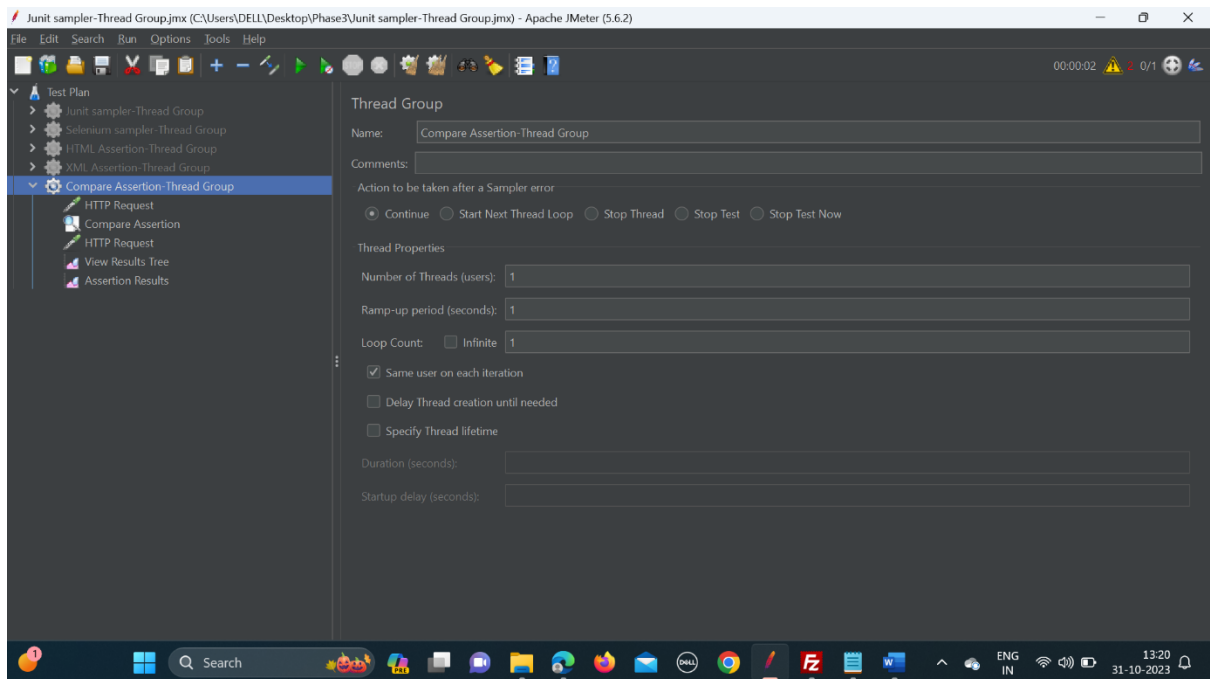
6. Comparison Assertion:

Test → Add → Threads(user) → Thread Group

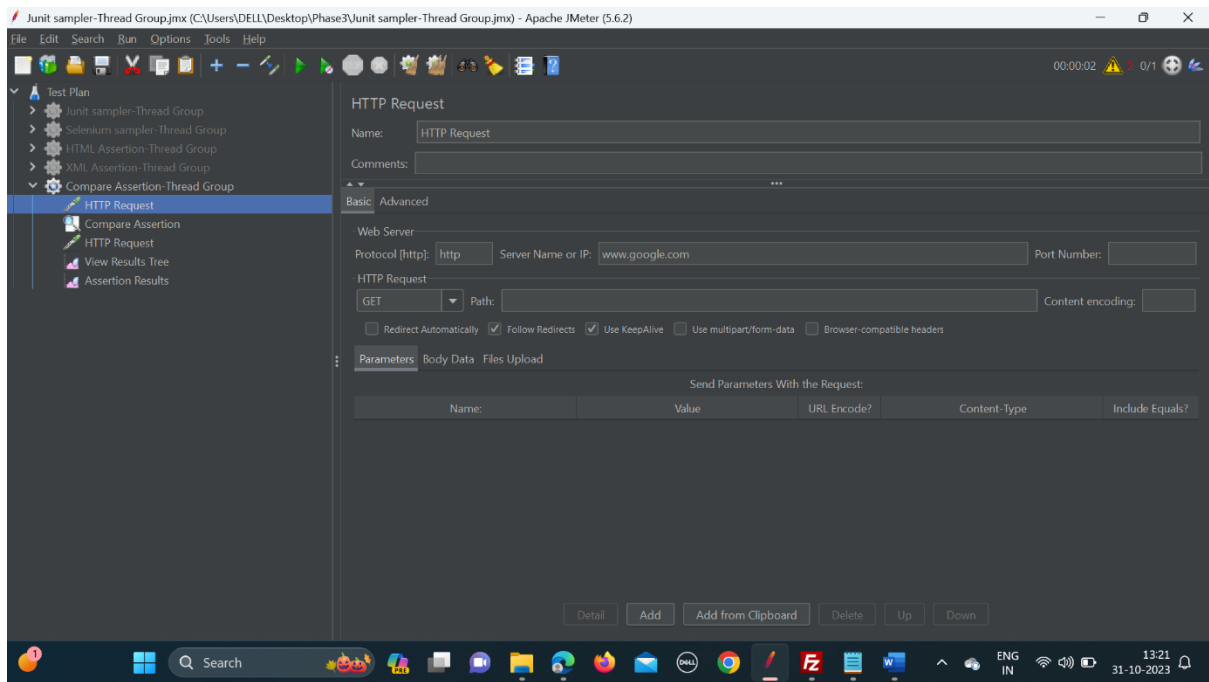
Go to Add → Sampler → add two HTTP Requests.

Go to add → Assertions → compare Assertion.

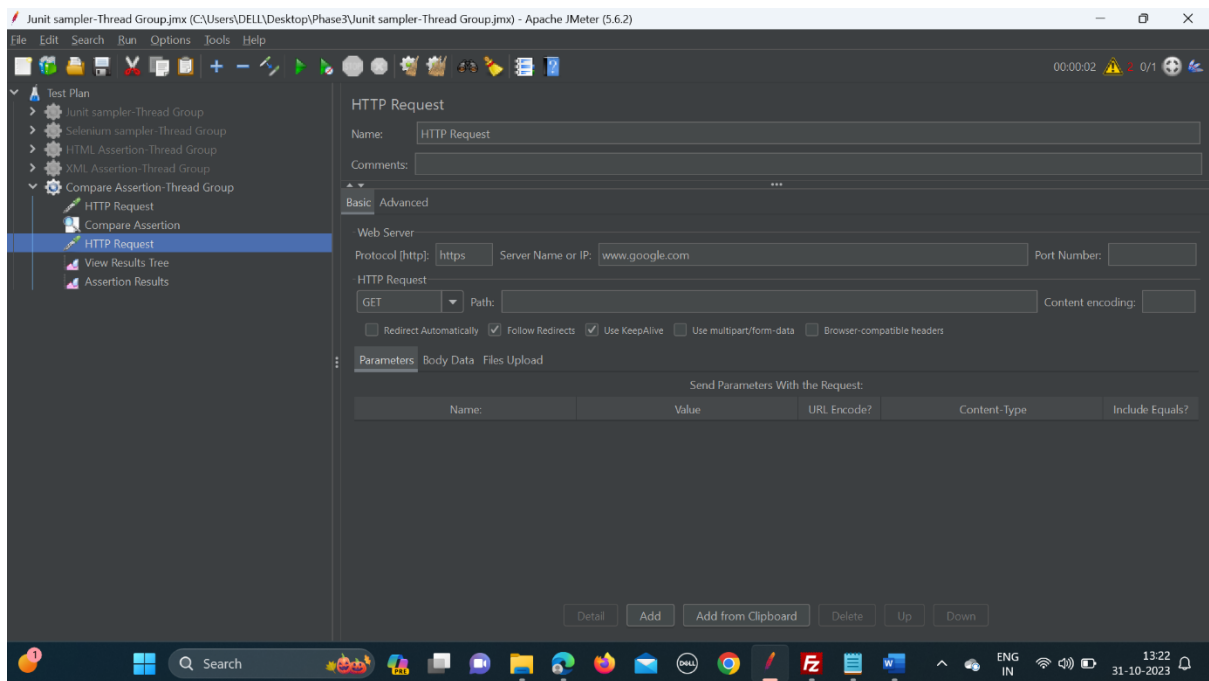
Go to add → listener → view results tree and assertion results.



http request 1



http request 2



Then compare that two http requests using compare assertion.

