Below are steps followed to automate Google search using search text “Gautham Shenoy” :

**Flow of Google search and Validation**:

1. Test will start run from TestSuite.xml which has browser type to be initialized.
2. Once Test Class is triggered, Driver Initialization parent class will be triggered.
3. In Driver Initialization class: Browser will be initialized with desired capability.
4. Passed the driver to Page class through Constructor.
5. Once browser invoked, actual test case will initiate.
6. Relation between Test Class and Page class will happen via Parameter constructors.
7. From Test Class, Page class will be initialized to execute test scripts.
8. From Test Class, Assertion happens, and results will be shown.
9. Report will be generated in test output folder.

**Assumptions**: Google Search has been automated. Search text used: “Gautham Shenoy”. Test Case will fail as Google Search Results will give exact Search Results + like search Results. Hence Search Results assertion will fail after 3-4 pages.

**Note**:

1.Google Search Results will give exact Search Results + like search Results. Hence Search Results should be validated using Do While loop.

2. Observed Google Search has changed implementation today to load search results with “More Results” button, Test Scripts are written using this logic

3.But Sometimes, browser will show Pagination hence Test Case is sometime faiing

**Note**: I was getting error during UniCourt portal while performing search which was reported in mail. Hence as per confirmation in mail worked on Google Search automation

**Important notes:**

1. Used Selenium + JAVA with TestNG framework to write program.
2. POM.xml is added for reference.