**Why python for automation testing?**

It is easy to learn and understand, simpler to code. As we know that world is moving towards Artificial intelligence, python plays a crucial role in implementing them. More jobs, less competition. Selenium web driver is an open-source tool to automates web apps. Selenium can be coded in multiple languages Java, Python, JavaScript, C# and Ruby etc. selenium works with multiple platforms like windows, Linux, and Apple. It also support multiple browsers like chrome, Firefox, and internet explorer.

In the beginning I learnt about the understanding of python, datatypes, variables, program flow control, and object oriented of principles. OOP principles are classes and objects in python. What is constructor and its role in object-oriented programming, inheritance with examples, string and its functions. Read and write to files, exception handling.

Move towards the basics of selenium WebDriver methods to get title, URL and close the session. There are different type of locators in WebDriver API with examples. WebDriver locators are: id, name, xpath, css, ClassName, and linkText. Learn about the python API techniques to automate web elements. Synchronization explicit and implicit wait in selenium WebDriver. Framework design plan. Then move to the pytest it includes unit testing framework of python. Logging and generating html reports in python Framework. Read or write data from excel python framework. Integrating framework to Jenkins and setup various job parameters.