1. What is properties file and why is used to in selenium?

* In selenium .properties file are mainly used to store GUI locators/elements
* Also properties files are used in java programs to maintain project configuration data, database config or project setting etc
* Each parameter in properties file are stored as a pair of strings, in key and value format, where each key is on one line, we can easily read properties from some file using object of type properties
* We have to create object for properties class which is provided by java.io
* Then we have to create object for file class where we need to provide directory of properties files
* Once directory has been created then we can read file from directory, for that we have to create object for File-Reader class, in the File-Reader object we need to supply object for file class
* Finally we have to load file-Reader object into properties object

1. How to handle dynamic calendar in selenium?

* For dynamic calendar we need to figure out any specific date x-path or CSS, then we need to figure out which part of x-path is static and which part is dynamic
* Also we need to figure out date format, if date format is different, then we have to convert date into date-picker format
* Then through loops we can make complete dynamic x-path for calendar

1. How to handle dynamic table in selenium?
2. What or how we are run failed test case in selenium?

* We know most difficult part of automation is the analysis of test executions, at the end of execution, we need to analyze failed cases and try to figure out
* There are multiple reasons why the test fails
* Due to the network issue
* Due to application downtime
* Due to loading issue etc
* For overcome those issues we need to use Java class and Interface IRetryAnalyzer and IAnnotation,Transformer

1. Why do we need logger or log4j in selenium?

* Well, when we run test cases, we may want to implement logging to see when the test started executing, when the test failed and what is the message/warning it has provided
* Log4j built three main components which work together to enable log messages according to message type and level, and to control at runtime how these message are formed and where they are reported
* **Loggers**: which are responsible for taking the input of logging information and display the logging information as per your needs
* **Appenders**: which are responsible to display the logging information, the name of the appender is console and this is the name that is used to refer to the appender in the rest of the configuration file, **The class to use for the appender is org**.apcahe.log4j console appender, it can be used to set standard output console/text file/ html etc
* **Layout**: the console appender also has a layout element defined which uses org.apache.log4j.PatternLayout, the layout conversion pattern method takes a string describe the layout for message and layout is used for formatting the log file output
* **Different logging levels in Log4J** : bellow are the different logging level in log4j
* ***ALL, Debug, Info, Fatal, Warn, Error, Fatal***

1. What is web event listener in selenium?

* Event listener is a concept provided in web driver which is used for automatically doing some operations whenever some is performed like[click on, navigate forward and navigate to backward]
* When we talk about listener like **WebDriverEventListener and EventFiringWebDriver**
* **WebDriverEventListener:** This WebDriverEventListener is a interface which allows us to implement the methods, once the script is executed, selenium webDriver does perform activities as type click, navigate etc
* **EventFiringWebDriver:** is class which actually fire WebDriver event