1.What are the selenium component
  Selenium IDE -->[IDE-->Integerated Development Environment]
  Selenium RC -->[RC -->Remote Control]
  Selenium WebDriver
  Selenium Grid

2.What is latest version of Selenium? and What version your using in your project
 Latest Version of Selenium -> 4.0.0 rc-1
 Stable Version of Selenium -> 3.141.59

3.Locator in Selenium
Id
name
classname
xpath
linkedText
PartialLinkedText
tagname
cssselector

4.What is xpath and its type
Xpath--> If the webelement has no id,name and class name we can go for xpath.
-->TO validate the locator we can go for xpath.

Two type of Xpath:
1.Relative xpath
2.Absolute xpath

Absolute xpath(/)--> If we want to find element we need to traverse from top root of DOM structure
Relative Xpath(//)-> We can find element from the current node of the DOM

5.How will dynamic Webtable
By using xpath axes we can handle Dynamic webtable
-> We have relation concept like --> ancestor,parent,child,sibling

6.How will you debug your code?
-->Set a breakpoint
-->We need to execute the code bu debugas
Stepover
StepInto
StepReturn

7.In the project what are exception you faced so far?
ElementNotVissibleException
ElementNotSelectableException
StaleElementReferenceException
NoSuchElementException
NoSuchWindowWxception
NoSuchFrameException
NoSuchAlertException

8.When We will get NoSuchElementException?
-->Invalid Locator
-->Due to wait issues
-->Element may be present inside the frame
-->Due to not maximize ur browser window

9.What is StaleElementReference Exception
-->The particular Webelement is not present in the webpage after refresh,if we try to interact with those element we will get StateElementReference Exception.

10.How will you Handle StaleElementReference Exception
 -->By using Page Object Mode concept we can handle it
Note:
 If they other than POM concept
 We can use try catch method for handling the exceptions

11.What are the methods present in WebDriver Interface?
get()
getTitle() --->String
getCurrentUrl()-->String
findElement() --->WebElement
findElements()--->List<WebElement>
getWindowHandle()-->String
getWindowHandles()-->Set<String>
close()
quit()

12.What are the methods present in WebElement?
sendKey()
click()
getText()--->String
getAttribute()-->String
isEnabled()--->boolean
isDisplayed()-->boolean
isSelected()--->boolean
submit()

13.What is Close and quit?
close -->It is used to close the current webdriver reference Window
Quit -->It close the enitre window in the browser.

14.getText() and getAttribute()
getText() ---> Method used to get text which is present in the webpage (pre defined text)
getAttribute()->Method used to the attribute value from the particular element (user deifned text)

15.Difference between findElement() and findElements()
findElement() -->It is used to find only one webelement from the webpage
            -->Return type of findElement() is WebElement
            -->If we try to find invalid locator with the help of findElement()-->It will thorw nosuchElement

exception.

findElements()-->It is used to find more than one WebElement from the webpage
        -->Return type of findElements() is List<WebElement>
        -->if we try to find invalid locator with help of findElements()-->It will not throw any exceptions.

16.Different between get and navigate
get() -->It is method which we used to pass the url
    -->It will wait till page get loaded properly
    -->It will store any history of our search

navigate -->It is a interface
        -->It doesnot wait till pagee get loaded properly
        -->It will storre the catch memeory

17.What are the methods present in the navigation interface
navigate.to()
navigate.forward()
navigate.back()
navigate.refresh()

18.How you will check whether webelement is present or not?
we have a methods in WebElement
isDisplayed()
isEnabled()
isSelected()

19.How will you perform Mouse action Selection.
-->For performing Mouse action we have a classs called Actions.
-->We need to create object for Actions class and we have to pass WebDriver referce.
-->In actions class we have methods like
moveToElement().perform() -->To perform Mousehoveraction
contextClick().perform() -->To perform rightclick
doubleClick().perform() -->To perform doubleclikc
dragAndDrop(source,des).perform()-->TO perform drag and drop
keyUp()
keyDown()---> to perfomr keyboard actions

20.How will you switch to frame?
 driver.switchTo().frame();
In that frame we pass three
1.String id or String name
2.Int IndexNo
3.WebElement Ref.

21.How will get out from frame to normal Window
driver.switchTo().defaultContent()
How will switch to parent frame
driver.switchTo().parentframe()

22.How will you takeScreenshot?
TakesScreenshot-->I present in Selenium
--> To access the method from TakesScreenShoot we need to typecast,we have Method called getScreenShotAs(),in that we need to pass Output type and select desired output.

23.What the Output type present in Screenshot?
File
Bytes
Base64
class

24.How will pass textvalue to text box without using sendkeys?
By using JavaScriptExecutor we can passs text value to the text box.
JavaScriptExecutor js =(JavaScriptExecutor)driver;
js.executeScript("arguments[0].setAttribute('value','value')",webElement ref);

25.How will perfrom Scroll down and Scroll Up action in Webpage
Using JavaScript Executor -->we can achieve this

26.How will you select a value from the dropDown
--> Most of page drop down are present in select tag.For perfroming dropDown we have a class called Select in Selenium.
Methods to select valuee:
selectByIndex()
selectByVissibleText()
selectByValue()

27.How will you get all options from the drop down
In Select class we have method called getOptions it will return list<WebElement>.to get all the options from the webpage.

28.How will you check whether drop is multi select or not?
We have method called isMultiple()

29.How will handle windows pop up?
By using alert and Robot class

30.What is Robot class?
TO perform keyboard action we go Robot class.It is a class present in Java.awt package.
In Robot class we have two methods
keyPress()
keyRelease()

31.Explain MethodOverloading and MethodOveridiing with respect to your project
MethodOverloading:
TO switch from window to frame-->frame() is example for Method overloading

MethodOverridding:
All interface methods are set to be Method overridding.

32.Explain WebDriver driver =new ChromeDriver();
WebDriver-->Interface
driver-->Object reference for chromdriver andd it just reference for WebDriver
new -->keyword
ChromeDriver()-->classs

33.It is possible to have ChromDriver driver=new ChromeDriver();
yes it is possible, but with this we cant achieve Multi browser tasking.

34.How will you handle Synchrone issue in our project
--> By using concept of wait we can handle it, When this synchrone issue during parallel Execution

35.Waits?
Two types--> Static
        --> dynamic
Static -->Thread.sleep()

Dynamic Wait-->Implict Wait
        -->Explicit wait
            Webdriver wait
            Fluent Wait

36.How will switch one to anoter window
driver.switchTo().windoe();