

1.) What are the components in the Selenium -

The components are Selenium IDE, Selenium RC, Selenium web Drivers and Selenium ~~Grid~~ Grid.

2.) Selenium is a open source automatic testing framework used to validate web application across different browser and platform.

2.) How does selenium communicate with the web browsers.

- Selenium web driver uses JSON, [Java Script Object Notation]

JSON wire protocol is a REST API that transfers the information b/w HTTP Server. Each Browser Driver has its own HTTP server

3.) What are the Locators available in Selenium to find element

- (i) id (viii) css selectors
- (ii) name (ix) xpath
- (iii) nameText
- (iv) Tag name
- (v) partial link Text
- (vi) link Text

4) Why XPath is preferred?

ID is considered as Unique key  
So there cannot be more than 1 element  
for same ID while XPath is created  
using relative path/position of elements

5.) How to Select drop down value?

we use the index method to  
select the drop down

```
select {  
  cat = driver.findElement(By.id("cat"))  
} cat.  
select by Text("Bigcat");  
cat = select Index(1);
```

5

6.) Different b/w Absolute path and Relative path

Absolute	Relative path
It points to a specific location in the file system, irrespective of the current working directory	It points to a location & directory using current directory as a reference
It is also referred to as full path or file path	It is also referred to as non-absolute path

Absolute URLs are used to link to other websites that are not located on the same domain.

Relative URLs are used to link to other website that are located on the same domain.

8.) XPath for preceding:-

X path  $\rightarrow$  Syntax

//input[@id='v02']//preceding  
::input[2](1 or 1)

//a[text()='videos']//preceding-sibling  
::[3]

10.) ~~get~~ How to getAttribute value using Selenium web browser

As:- getAttribute() method helps to get the value of any attribute of a web element which is returned as a string.