**Automation Introduction:**

**Definition of automation**

Testing an application features with the help of automation tool known as automation testing.

Tools

1)Selenium

2)QTP

3)Sahi

4)Sahi pro

5)Protector

6)Appium

7)Selendroid

**Disadvantages of manual**

1)Require more resources.

2)It is time consuming.

3)compatibility testing (cross browser testing) is very difficult in manual testing.

because if we have to check build on different browser then if one browser takes 10 min

then 6 browser take 60 min.

4)Test cycle duration will be increased.

5)More human efforts are required.

6)Less accuracy.

**Advantages of automation:**

1)Require less resources

2)It required less time consuming to run the automation script.

3)compatibility testing (cross browser testing) is easy in automation testing.

4)Test cycle duration will be decreased.

5)More accuracy.

6)Regression testing is easy.

**Why we choose selenium**

1)It is open source.

2)Supported by multiple languages.

1)Java 2) Python,3) C#,4) Pearl. 5)php 6)Rubby 7)Java script

3)Support multiple browsers

1)Chrome 2)Firefox 3)Internet explorer 4)Safari

**Disadvantages of automation**

1)we can automate only web based application.

2)we cannot test captcha or barcode.

3)We can perform regression testing but cannot perform ad-hoc testing.

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WebDriver driver = new ChromeDriver();

search-searchbox

Click on Gmail-link

WebElement-Search box,text link,button,scrollbar,table,textbox,image link,logo