1. What are desired capabilities?

* It is a class in org.openqa.selenium.remote.DesiredCapabilities package.
* It gives facility to set the properties of browser. Such as to set BrowserName, Platform, Version of Browser.
* Mostly DesiredCapabilities class used when we use Selenium Grid.
* We have to execute multiple TestCases on multiple Systems with different browser with Different version and Different Operating System.

Example:

WebDriver driver;

String baseUrl , nodeUrl;

baseUrl = "https://www.facebook.com";

nodeUrl = "http://192.168.10.21:5568/wd/hub";

DesiredCapabilities capability = DesiredCapabilities.firefox();

capability.setBrowserName("firefox");

capability.setPlatform(Platform.WIN8\_1);

driver = new RemoteWebDriver(new URL(nodeUrl),capability);

driver.manage().window().maximize();

driver.manage().timeouts().implicitlyWait(2, TimeUnit.MINUTES);