

1) Differentiate the Implicit wait and Explicit wait

IMPLICIT WAIT	EXPLICIT WAIT
It is by default applied to all the element in the scripts.	It is applicable to only certain element which is specific to a certain condition.
We cannot wait based on a specified condition like element clickable.	In explicit we can specify the wait based on a specific condition.
It is usually used when you are sure the element may be visible in a certain time.	It is usually used when you are not aware of the time of the element visibility.
Scope of implicit wait is throughout the entire script.	Scope of wait is for the particular element which is specific to certain condition.
It is applicable for complete webpage.	It is applicable for only single web element.

2) Example of Implicit and Explicit wait .

```
public class ImplicitWait {  
  
    public static void main(String[] args) throws  
InterruptedException  
    {  
  
        System.setProperty("webdriver.chrome.driver", "C:\\\\jav  
aselenium\\\\chromedriver.exe");  
  
        WebDriver driver=new ChromeDriver();  
        driver.manage().window().maximize();  
        driver.get("https://vctcpune.com/");  
  
        //Thread.sleep(10000);  
  
        // Implicit Wait
```

```

driver.manage().timeouts().implicitlyWait(Duration.ofMilli
s(10000));
    driver.close();

}

}

```

```

public class ImplicitWait {

    public static void main(String[] args) throws
InterruptedException
    {

        System.setProperty("webdriver.chrome.driver","C:\\jav
aselenium\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://vctcpune.com/");

        //Thread.sleep(10000);

        // Implicit Wait

        driver.manage().timeouts().implicitlyWait(Duration.ofMilli
s(10000));
        driver.close();

    }

}

```

- 3) Given the following 'cash on delivery' radio button element by using xpath

```

public class CashOnDelivery {

    public static void main(String[] args) throws
InterruptedException
    {

System.setProperty("webdriver.chrome.driver","C:\\javasele
nium\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();

        driver.get("https://www.edamama.ph/shop");

        Thread.sleep(4000);

        WebElement radiobutton =
driver.findElement(By.xpath("//input[@name=paymentMethod]"
));
        radiobutton.click();

    }

}

```

4)

```

public class ListBox1 {

    public static void main(String[] args) throws
InterruptedException
    {

System.setProperty("webdriver.chrome.driver","C:\\javasele
nium\\chromedriver.exe");

        WebDriver driver=new ChromeDriver();

        driver.get("https://www.edamama.ph/shop");

        Thread.sleep(4000);

```

```
        // 1. Identify list box to be handled and  
store in the reference variable
```

```
        WebElement listBox =  
driver.findElement(By.name("dropdown-class-example"));
```

```
        // 2. Create an object of selects class  
which will accept WebElement as argument
```

```
        Select s=new Select(listBox );
```

```
        // 3. By using one of the select class  
method we can select values from list box like
```

```
        s.selectByIndex(3);
```

```
    }
```

```
}
```