Checked Exception	Unchecked Exception
Exception checked by compiler for	Exception not checked by compiler and
smooth execution of program	handled by JVM
Mostly occurred so compiler checked	Rarely occurred so compiler not take care
Ex. file not found, interruptException	Ex. Arithmetic, null pointer,
	arrayIndexoutofBound

Final, finally, finalize

```
Program: multiple try catch
package ExceptionProg;
public class Prog4 {
public static void main(String[] args) {
try
System.out.println("Divide = " + 10/0);
catch(ArithmeticException e)
System.out.println("Exception is handled + " + e);
try
String str = null;
System.out.println(str.toUpperCase());
catch(Exception a)
System.out.println("Exception is handled + " + a);
Program: multiple catch block
package ExceptionProg;
public class Prog5 {
public static void main(String[] args) {
try
System.out.println(10/0);
```

catch (NullPointerException n) {

```
System.out.println("Exception handled - " + n);
}
catch(ArrayIndexOutOfBoundsException ai)
{
System.out.println("Exception handled - " + ai);
}
catch (ArithmeticException ae) {
System.out.println("Exception handled - " + ae);
}
catch(Exception e)
{
System.out.println("Exception handled - " + e);
}
finally {
}
}
```

Finalize

Method available in object super class

Release the resources allocated by unused object, before removing unused object by garbage collection

Finalize is protected by default/ but we can use public

Program:

package ExceptionProg;

```
public class Prog6 {

@Override
protected void finalize()
{
//Data Base connection and
//network connection
}

public static void main(String[] args) {
  Prog6 a = new Prog6();
  a.finalize();
}
}
```

What is garbage collection

Delete the used entity

Data Base connection and network connection

Then finalize method is to be called by garbage collection before destroying the object for object to perform cleanup activity

Finally	Finalize()
It is block used in try catch	It is method
Used to close the resources open in try	Used to take the resource back from
block	unused object, garbage collector
	deallocate the resource before destroying
	the object

Selenium configuration setup

- 1. Search selenium hq on google
- 2. Select the link https://www.selenium.dev
- 3. Go to downloads
- 4. Look for previous releases and click on link here
- 5. Look for Selenium 4.0.0
- 6. Look for <u>selenium-java-4.0.0.zip</u>
- 7. Download the zip
- 8. Extract the zip file
- 1. Open the installed chrome
- 2. Click on 3 dots
- 3. Select help option
- 4. Select about chrome option
- 5. Check for the version we are using
- 1. Search chromedriver download in google
- 2. Select the link https://chromedriver.chromium.org/downloads
- 3. Look the current release
- 4. Select and click the version which is available on machine
- 5. Select and download proper link of chromedriver for OS we are using
- 6. Extract the zip file
- 1. Open the eclipse
- 2. Right click on the project we are working
- 3. Select the last option properties
- 4. Select java build path
- 5. Select libraries tab
- 6. Click on add external JARs
- 7. Select all the extracted jar of selenium 4.0.0 (from selenium folder and libs folder too)
- 8. Click on Apply and Ok
- 1. Copy the downloaded chrome driver and paste in project by right clicking on current project
- 2. Look for chrome driver in project and right click
- 3. Copy the location and paste in system.setProperties as second argument
- 1. Create a new package

- 2. Create new class with main function
- 3. Use the below code to verify the selenium configuration

```
public class webdriverMethods {
public static void main(String [] args)
System.setProperty("webdriver.chrome.driver","Address of chrome driver");
WebDriver driver = new ChromeDriver();
driver.get("https://www.facebook.com/");
Program:
package SimpleSeleniumProg;
import org.openga.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class Demo {
      public static void main(String[] args) {
             System.setProperty("webdriver.chrome.driver", "chromedriver");
             WebDriver driver = new ChromeDriver();
             driver.get("https://www.facebook.com/");
      }
}
Program: Return method
package SimpleSeleniumProg;
public class ReturnMethod {
      public void add()
             System.out.println("Sum = " + (10+20));
      public int multiply()
             return 10*100; //1000
      }
      public String nameofEmp()
             return "Harry";
      public static void main(String[] args) {
             ReturnMethod a = new ReturnMethod();
             a.add();
```

```
System.out.println("Result of multiplication = " + a.multiply());

int result = a.multiply(); //1000
System.out.println("Multiplication = " + result);

String res = a.nameofEmp();
System.out.println("Name of Employee = " + res);
}
```