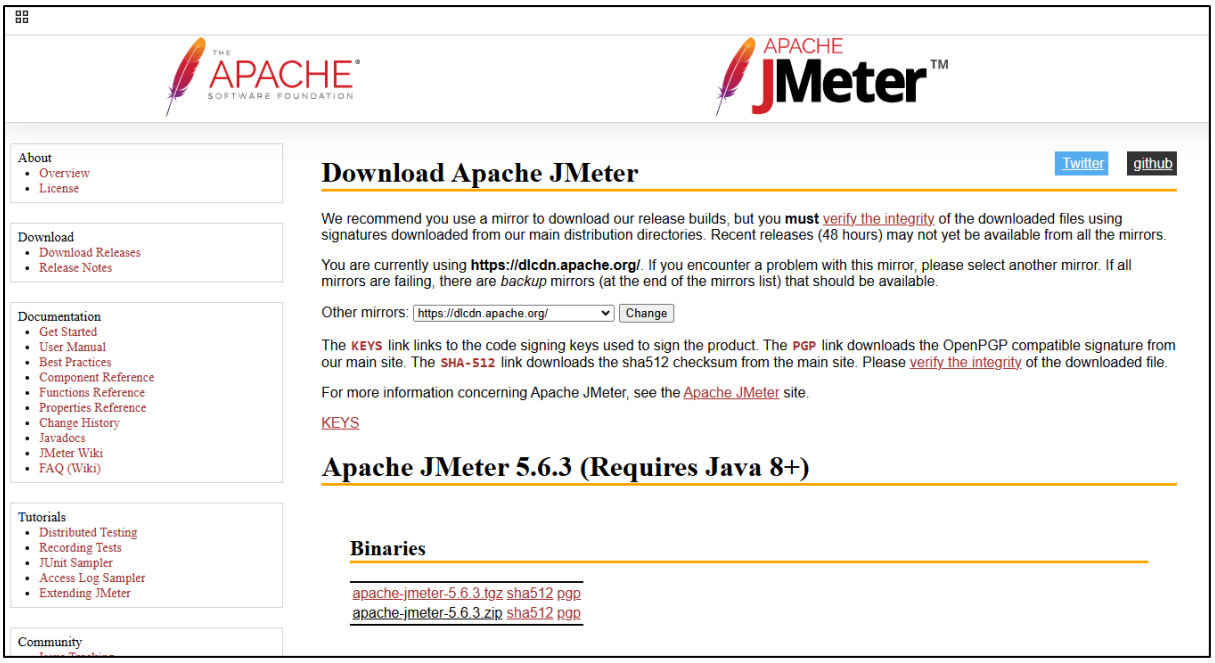
NAME:RUSHIKESH MHASKE
ROLL NO: 9142

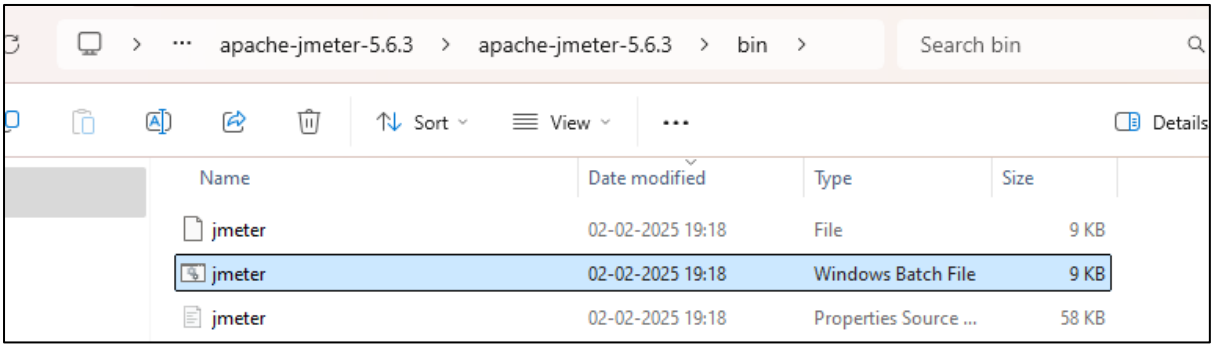
PRACTICAL 13

AIM : Load Testing using JMeter.

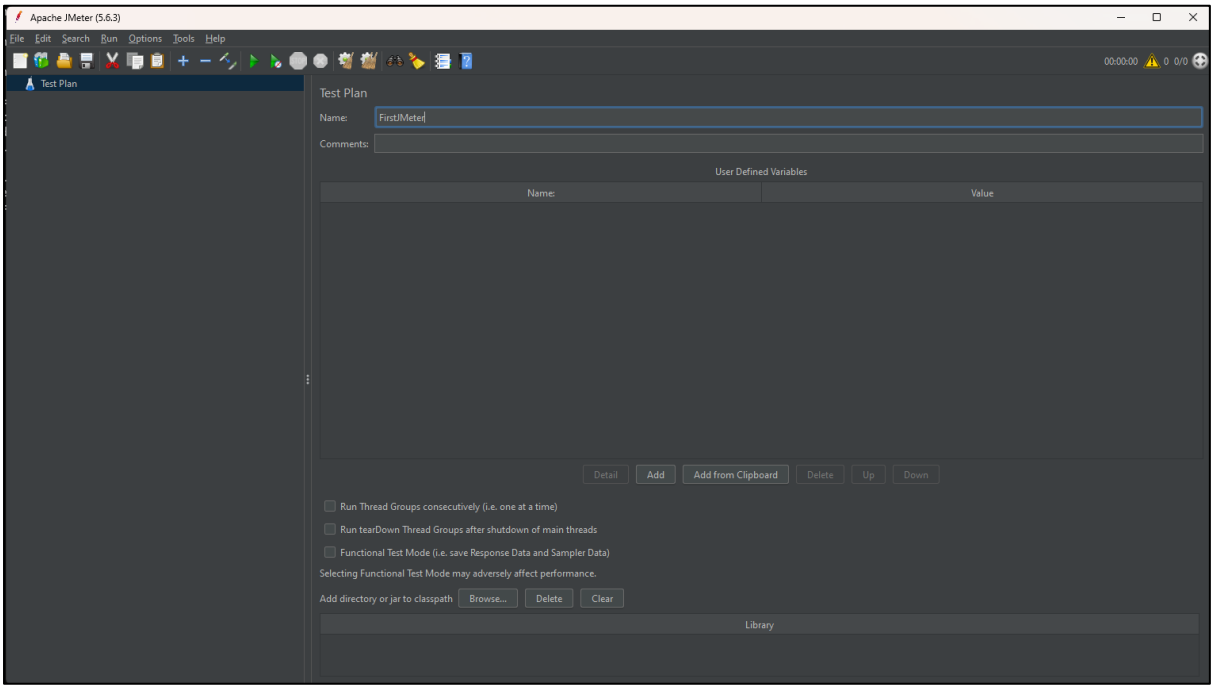
1. Install JMeter in your system.



2.Extract zip file > go to bin > click on jmeter batch file.



3. Rename the test plan as the FirstJMeter.



4. Right-click on the test plan. Go to add -> Threads (Users) -> Thread Group

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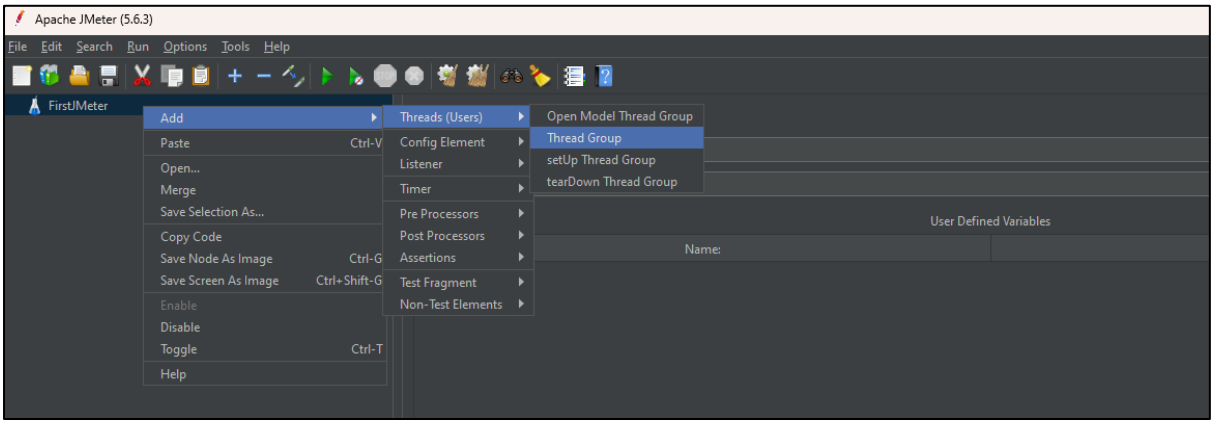
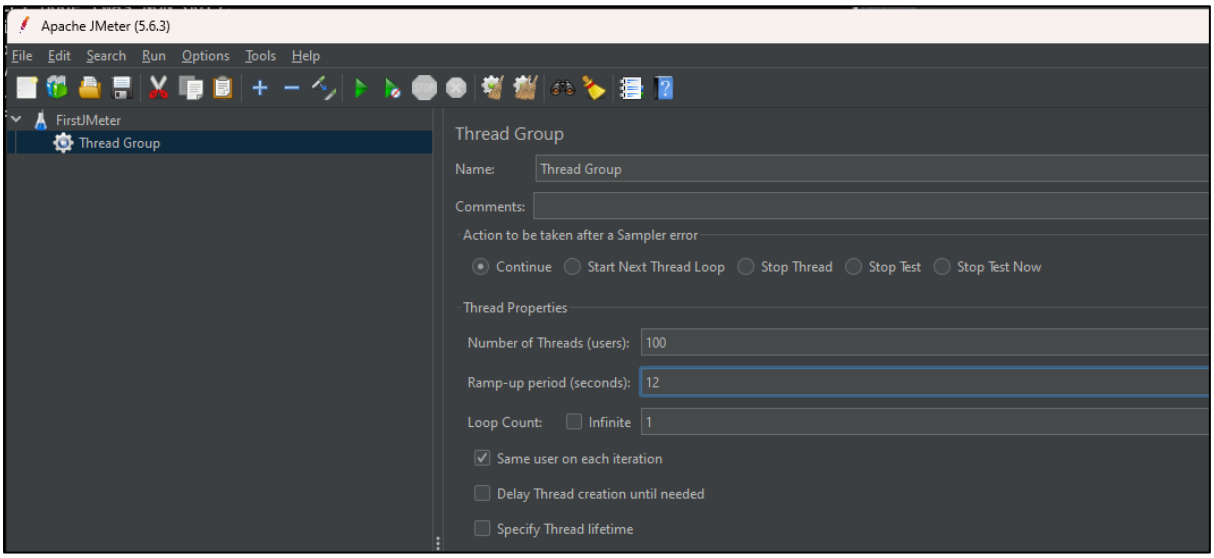
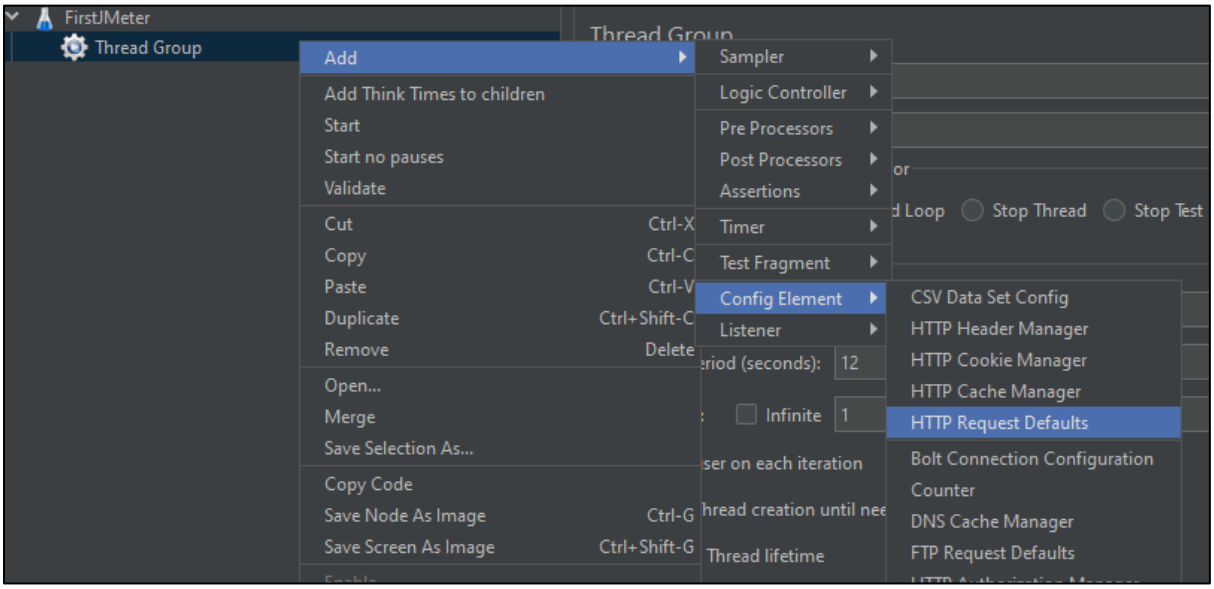


5. click on Thread Group, there are three things on the screen that are important concerning the load test: The number of threads (users): 100.Ramp-Up Period (in seconds): 12.Loop Count: 1

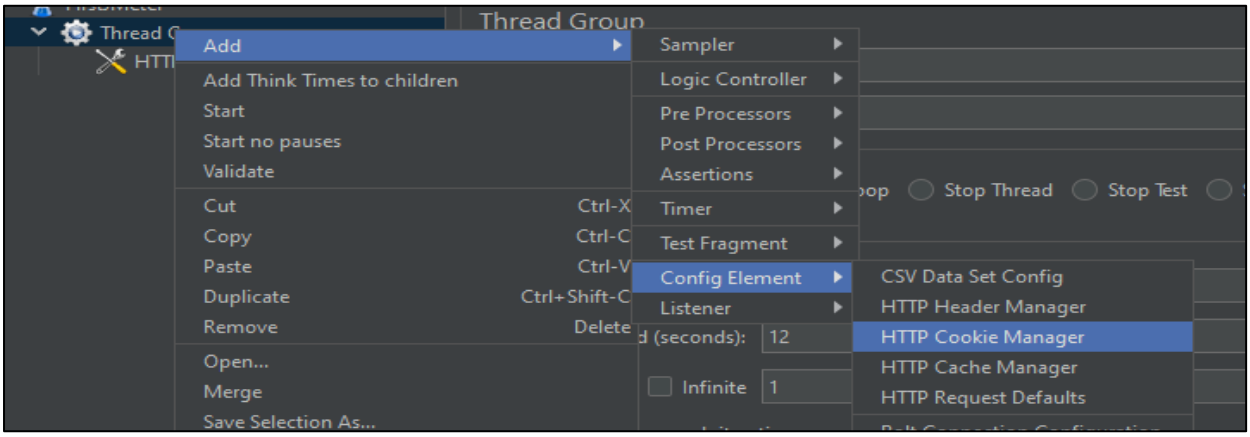


6. Right-click on the Thread Group. Go to Add -> Config Element -> HTTP Request Defaults.

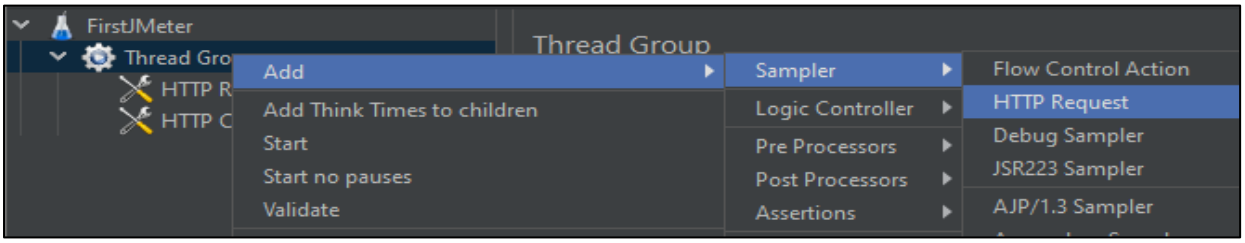


7.Name the server name or IP (www.simplilearn.com).

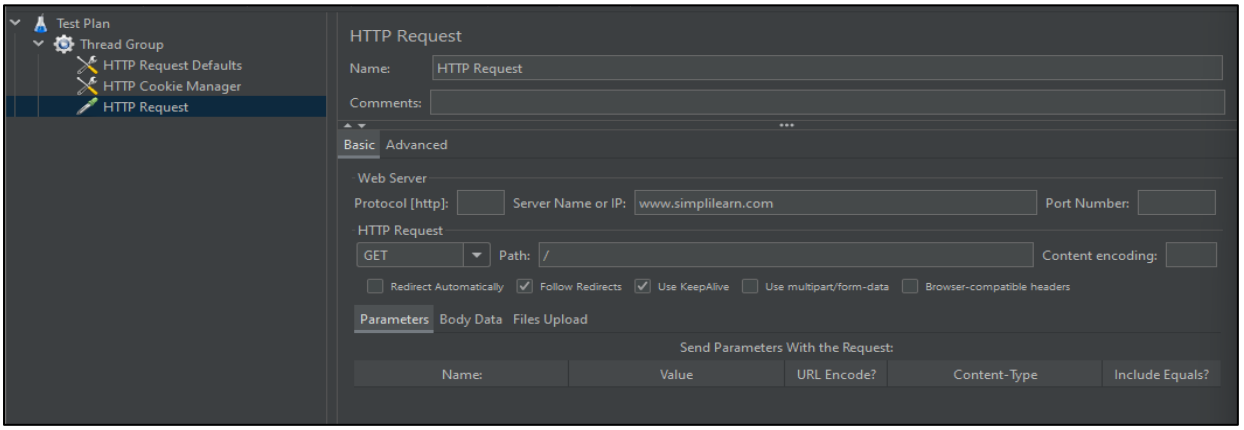
8. Right-click on the Thread Group. Go to Add -> Config Element -> HTTP Cookie Manager



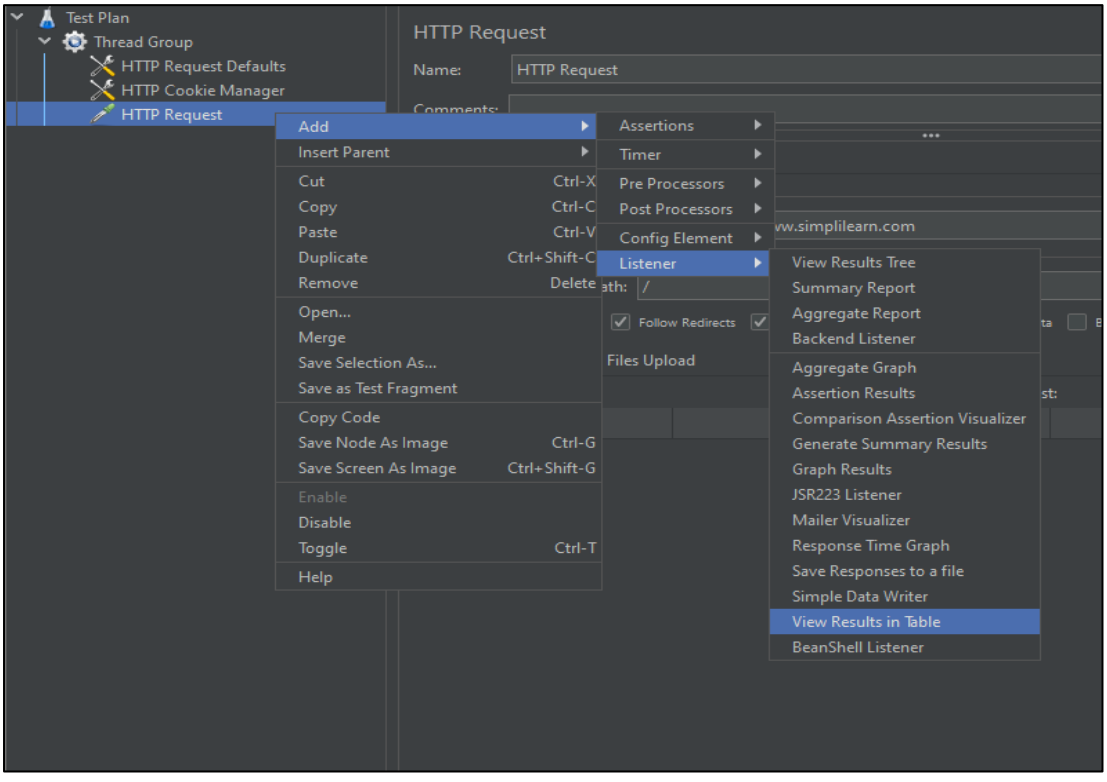
9. Right-click on the Thread Group. Go to Add -> Sampler -> HTTP Request.



10. Path set it to be "/". Fill Server Name or IP.



11. Right-click on the Thread Group. Go to Add -> Listener -> View Results in Table.



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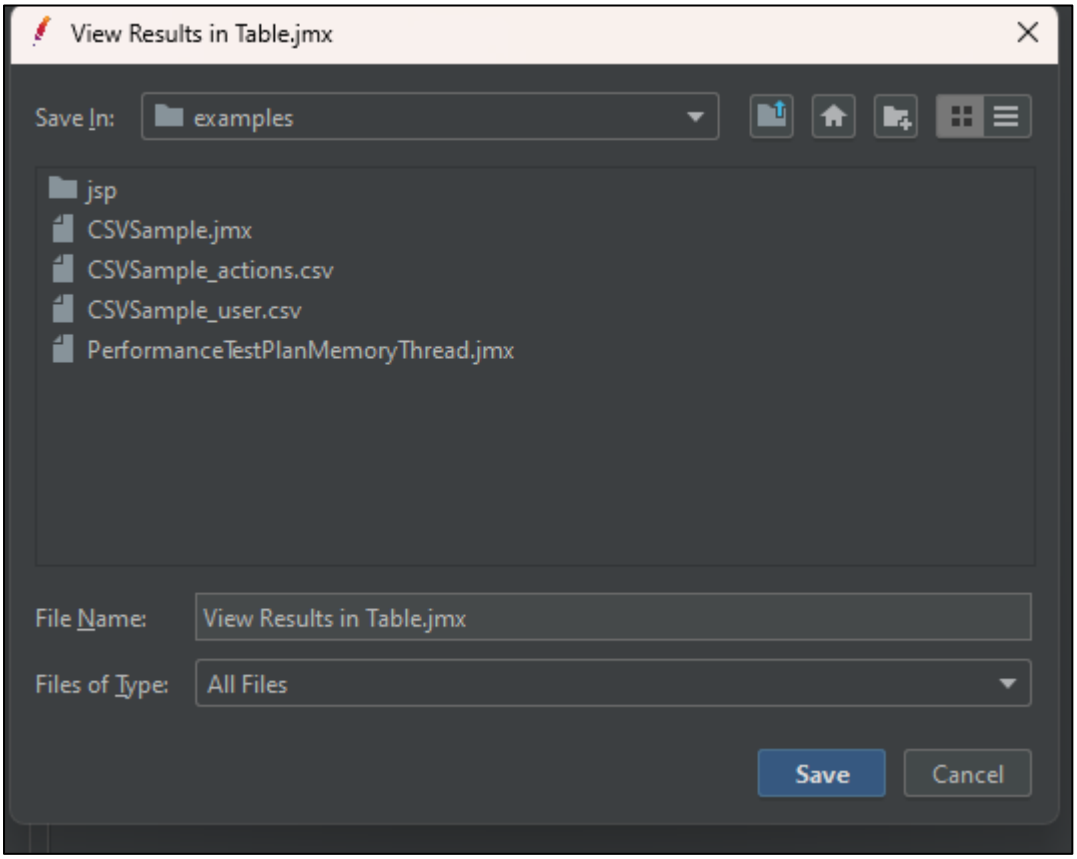
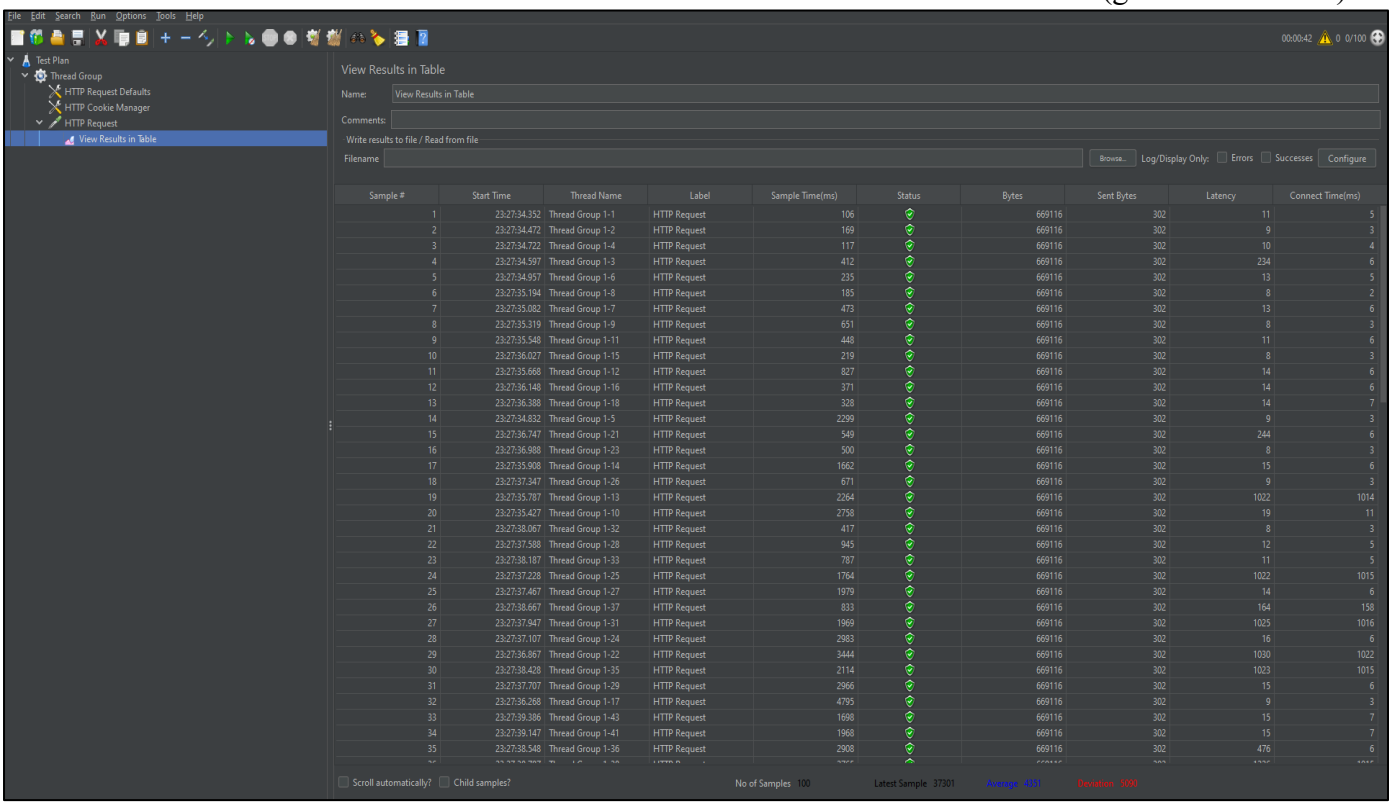
12. Save the file.



13. Run the Basic Test Plan. Click on View Results in Table. Click on the Run button (green start button).



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PRACTICAL 11

AIM: Write and test a program to select the number of students who have scored more than 60 in any one subject (or all subjects).

CODE:

ExcelTest.java

```
package pract11;
import jxl.Sheet;
import jxl.Workbook;
import jxl.read.biff.BiffException;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;
import java.io.File;
import java.io.IOException;
public class ExcelTest {
	@DataProvider(name = "studentData")
	public Object[][] readExcelData() throws IOException, BiffException {
	String excelFilePath = "C:\\Users\\student\\Downloads\\Book1.xls"; // Use .xls extension for JXL
	Workbook workbook = Workbook.getWorkbook(new File(excelFilePath));
	Sheet sheet = workbook.getSheet(0);
	int rowCount = sheet.getRows();
	int colCount = sheet.getColumns();
	Object[][] data = new Object[rowCount - 1][colCount]; // Subtracting 1 for header row
	for (int i = 1; i < rowCount; i++) {
		for (int j = 0; j < colCount; j++) {
		data[i - 1][j] = sheet.getCell(j, i).getContents();
		}
	}
	workbook.close();
	return data;
	}
	@Test(dataProvider = "studentData")
	public void testStudentScores(String rollNo, String name, String subject1, String subject2, String
subject3,String total) {
	int scoreSubject1 = Integer.parseInt(subject1);
	int scoreSubject2 = Integer.parseInt(subject2);
	int scoreSubject3 = Integer.parseInt(subject3);
	boolean hasScoredMoreThan60 = (scoreSubject1 > 60) || (scoreSubject2 > 60) || (scoreSubject3 > 60);
	if (hasScoredMoreThan60) {
		System.out.println("Student with Roll No: " + rollNo + " and Name: " + name
			+ " has scored more than 60 in any subject.");
	}
	}
```

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}

OUTPUT:

Javadoc | Declaration | Console | Progress | Results of running class pract11

```
<terminated> pract11 [TestNG] C:\Users\Student\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_20.0.1.v20230
[RemoteTestNG] detected TestNG version 7.10.1
SLF4J(W): No SLF4J providers were found.
SLF4J(W): Defaulting to no-operation (NOP) logger implementation
SLF4J(W): See https://www.slf4j.org/codes.html#noProviders for further details.
Student with Roll No: 4 and Name: manasvi has scored more than 60 in any subject.
Student with Roll No: 6 and Name: rishi has scored more than 60 in any subject.
Student with Roll No: 8 and Name: yash has scored more than 60 in any subject.
PASSED: pract11.pract11.testStudentScores("7", "anshul", "42", "43", "41")
PASSED: pract11.pract11.testStudentScores("8", "yash", "62", "47", "42")
PASSED: pract11.pract11.testStudentScores("4", "manasvi", "67", "23", "46")
PASSED: pract11.pract11.testStudentScores("3", "dipti", "29", "24", "43")
PASSED: pract11.pract11.testStudentScores("10", "chirag", "42", "50", "42")
PASSED: pract11.pract11.testStudentScores("1", "piyush", "40", "32", "50")
PASSED: pract11.pract11.testStudentScores("2", "prakash", "33", "50", "44")
PASSED: pract11.pract11.testStudentScores("5", "disha", "38", "10", "20")
PASSED: pract11.pract11.testStudentScores("6", "rishi", "70", "44", "45")
PASSED: pract11.pract11.testStudentScores("9", "abhinay", "44", "49", "42")

===============================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
===============================================


===============================================
Default suite
Total tests run: 10, Passes: 10, Failures: 0, Skips: 0
===============================================
```

Roll No	Name	Subject1	Subject2	Subject3	Total
1	piyush	40	32	50	122
2	prakash	33	50	44	127
3	dipti	29	24	43	96
4	manasvi	67	23	46	136
5	disha	38	10	20	68
6	rishi	70	44	45	159
7	anshul	42	43	41	126
8	yash	62	47	42	151
9	abhinay	44	49	42	135
10	chirag	42	50	42	134

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PRACTICAL 8

AIM: Perform pareto chart for given data.

STEPS:

1. Static Pareto Chart :

1) Data to be used :

	A	B
1		
2	DATA TO BE USED	
3	complaint type	no of complaints
4	delay in registration	43
5	room cleaning	34
6	food quality	17
7	delay in room service	9
8	staff attitude	6
9	room interiors	6
10	air conditioning	3
11	concierge	2
12	mini bar	2

2) Apply the formula for cumulative percent as below for first row and then drag the cell to get cumulative percent for all the rows : - =SUM($B$2:B2)/SUM($B$2:$B$10)

C2 =SUM($B$2:B2)/SUM($B$2:$B$10)

	A	B	C	D
1	complaint type	no of complaints	cummulative %	
2	delay in registration	43	0.352459016	
3	room cleaning	34	0.631147541	
4	food quality	17	0.770491803	
5	delay in room service	9	0.844262295	
6	staff attitude	6	0.893442623	
7	room interiors	6	0.942622951	
8	air conditioning	3	0.967213115	
9	concierge	2	0.983606557	
10	mini bar	2	1	

3) Convert cumulative % column to percent type :
Right Click on cumulative % -> Format Cells… -> Select Percentage -> OK

C4 =SUM($B$4:B4)/SUM($B$4:$B$12)

	A	B	C	D
1				
2	DATA TO BE USED			
3	complaint type	no of complaints	cummulative %	
4	delay in registration	43	35.25%	
5	room cleaning	34	63.11%	
6	food quality	17	77.05%	
7	delay in room service	9	84.43%	
8	staff attitude	6	89.34%	
9	room interiors	6	94.26%	
10	air conditioning	3	96.72%	
11	concierge	2	98.36%	
12	mini bar	2	100.00%	

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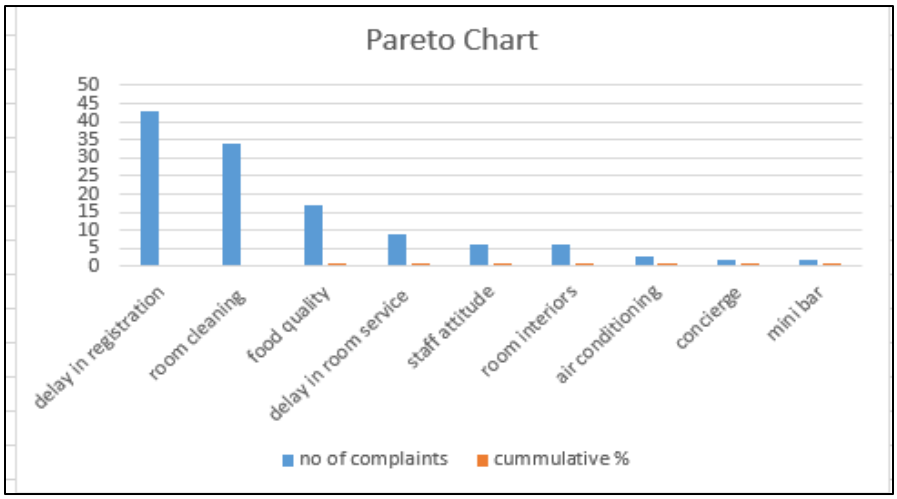
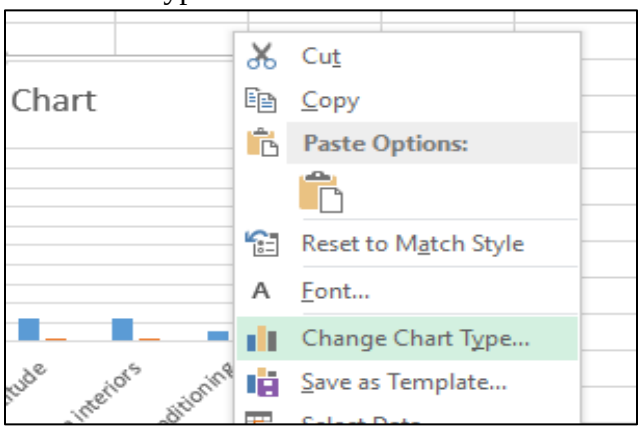
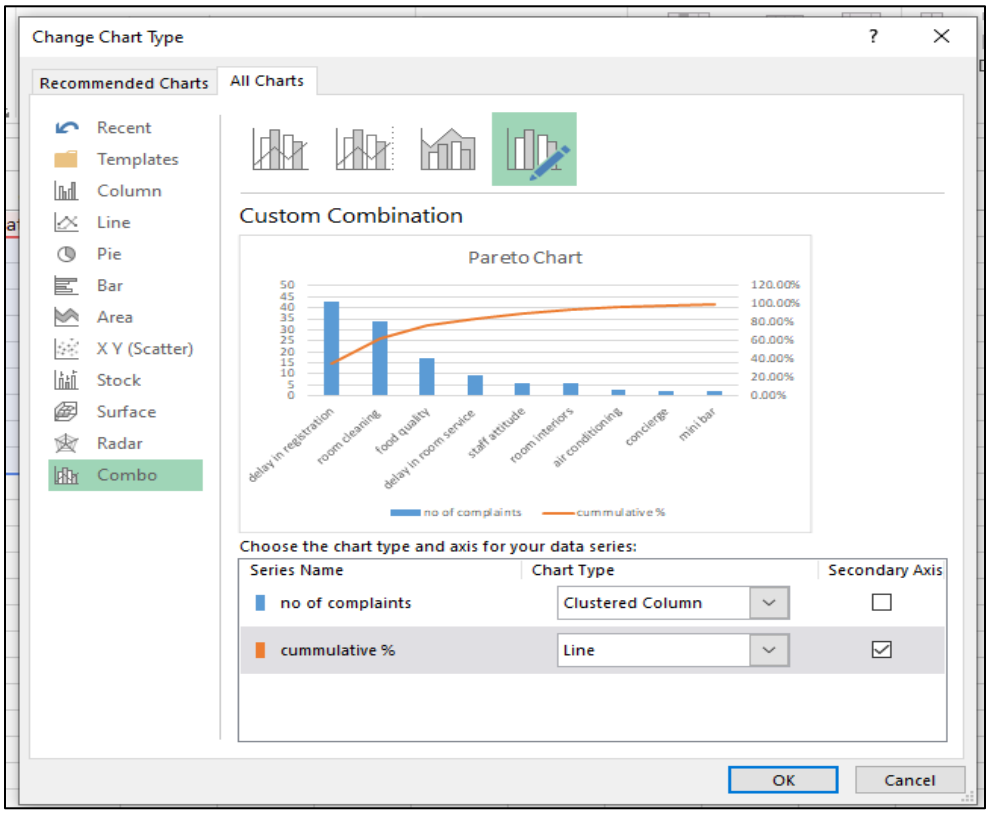
4) To create Bar Graph: Select the entire data -> Insert -> Insert Column Chart -> Clustered Column



5) To create Static Pareto Chart : Right Click on chart -> Change Chart Type…-> Combo -> For cumulative % , select chart type as Line and tick the checkbox in Secondary Axis -> OK





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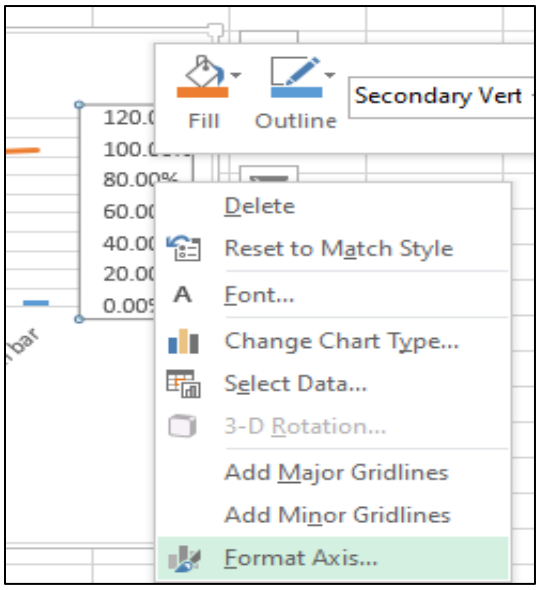
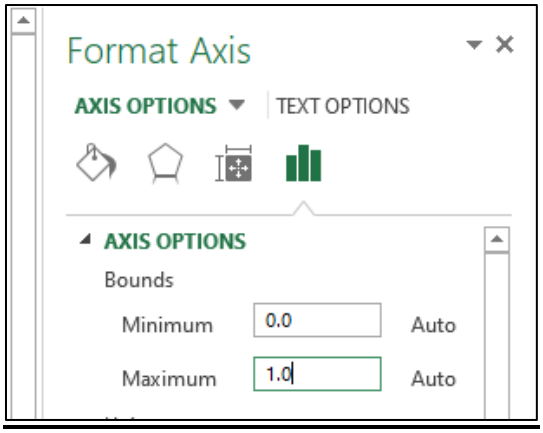
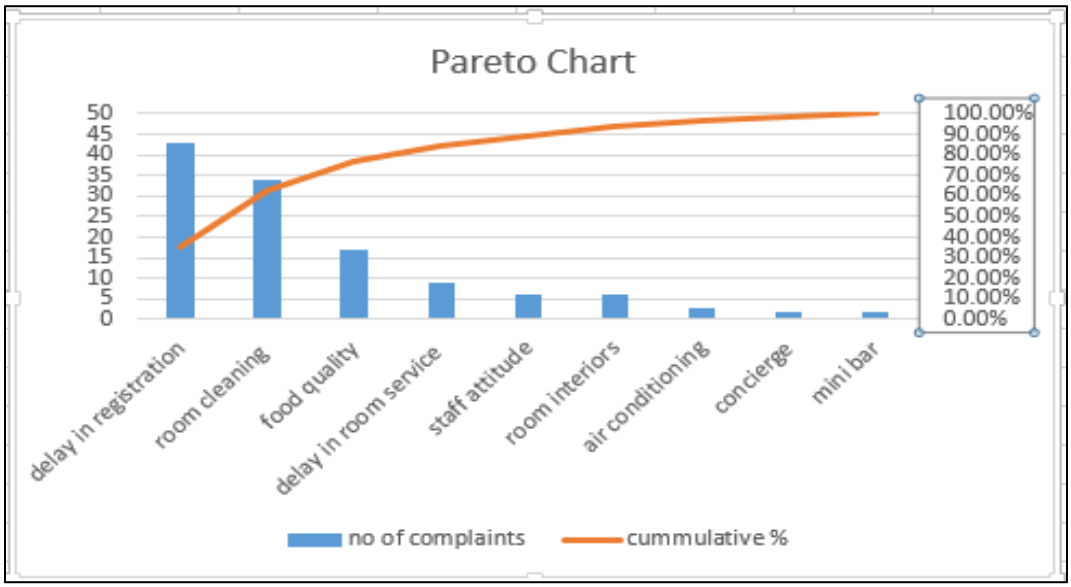
6) To change the legends range: Right click on the cumulative legend -> Format Axis -> set Maximum as 1.0





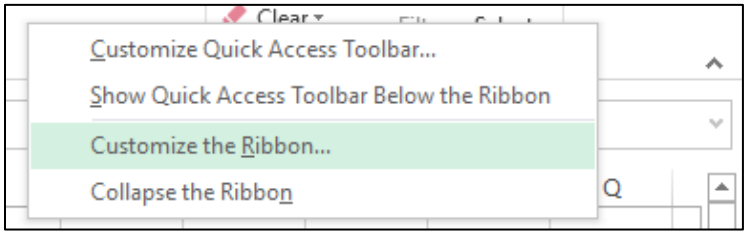
Static Pareto Chart :

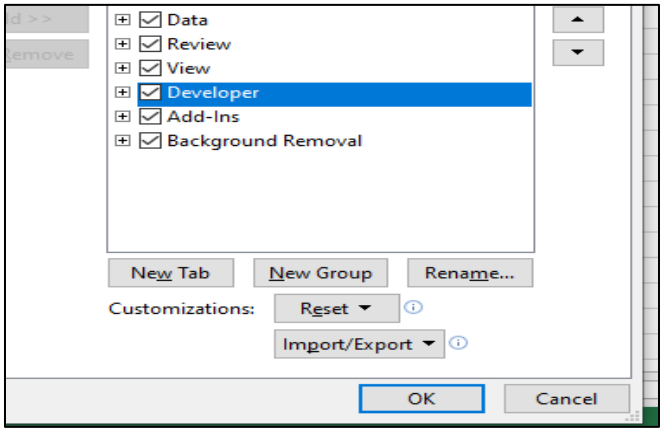


2. Dynamic Pareto Chart :

1) Add Developer option :

Right click on ToolBar -> Customize the Ribbon… -> Select Developer -> OK





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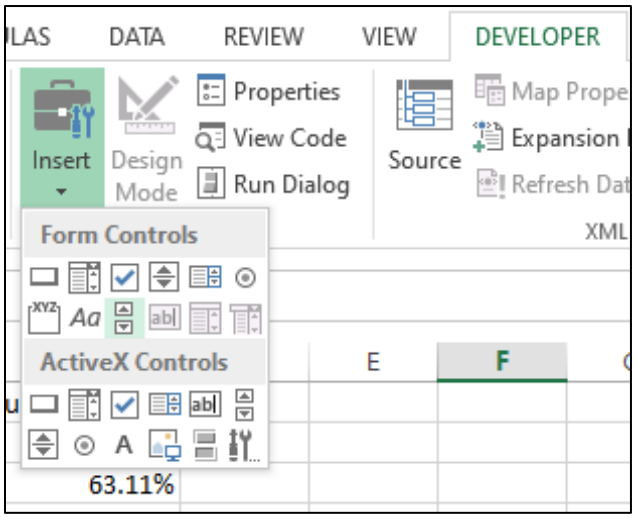
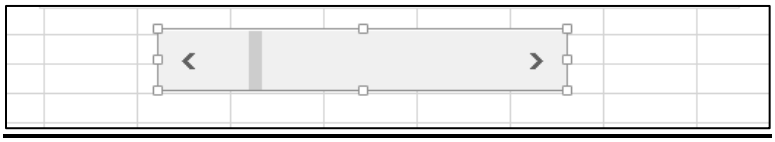
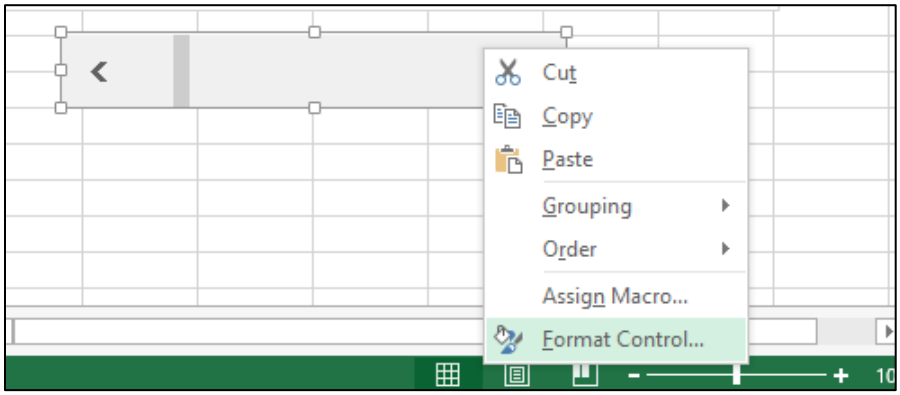
2) Go to Developer -> Insert -> Form Control -> Scroll Bar

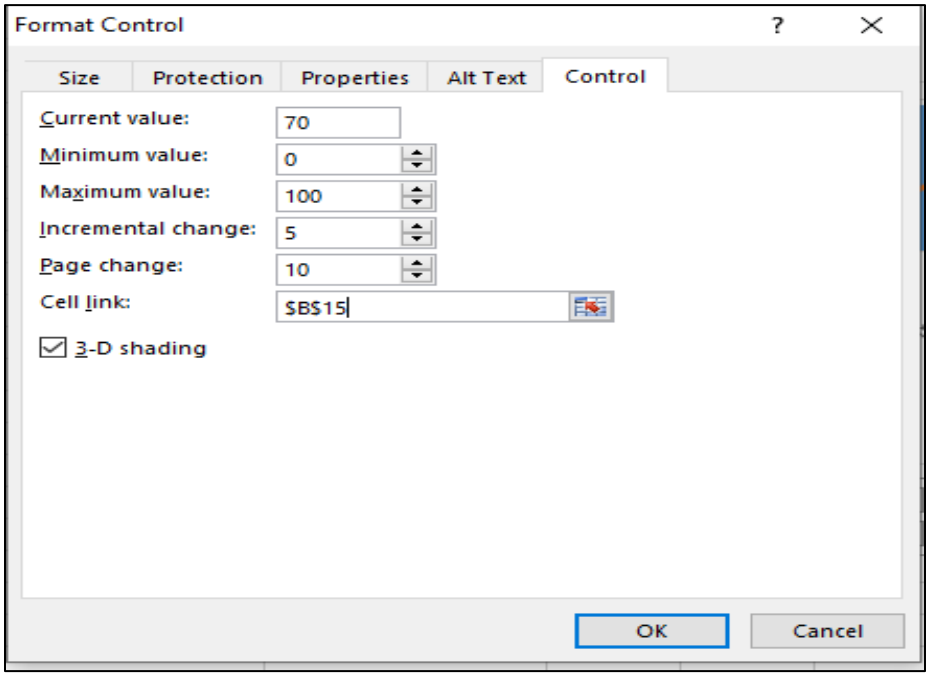




3) Add cells such as target, cumulative value , scroll bar link value below data

4) Add control to the Scroll Bar :Right click on Scroll bar -> Format Control -> Set the values as follows -> OK





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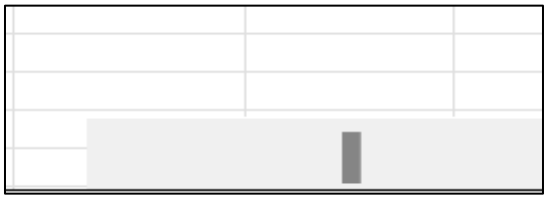
5) Add Columns as ‘highlighted bars’ and ‘remaining bars’ to data and add the following formula for the same & drag drop values for entire column :
highlighted bars : =IF($B$14>=C2,B2,NA())
remaining bars : =IF($B$14<C2,B2,NA())

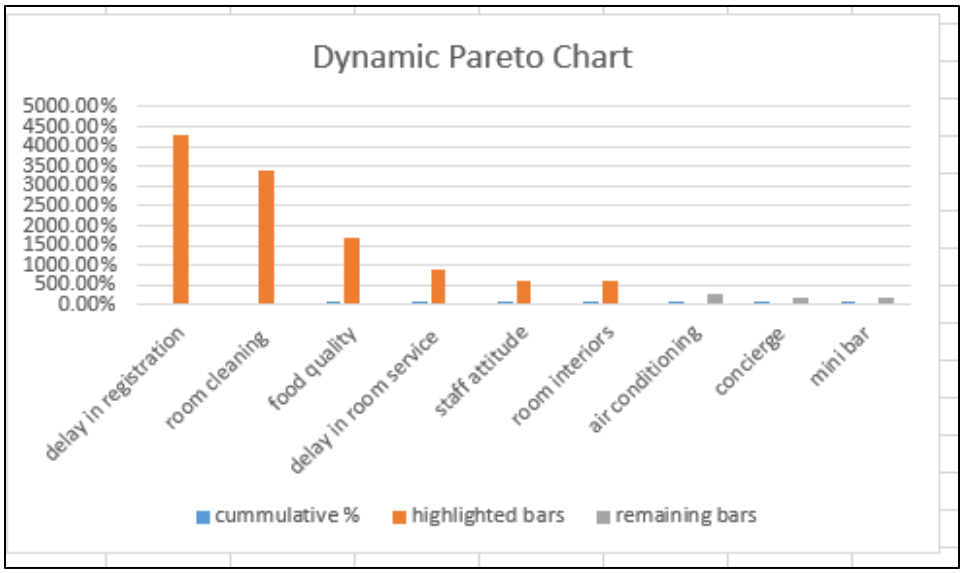
6) Add the following formula to the target and cumulative value :
target : =B15/100
cumulative value : =INDEX($C$2:$C$10,MATCH($B$13,$C$2:$C$10,1)+1)
Now as we click the scroll bar , accordingly the reflections will be seen

	A	B	C	D	E
1	complaint type	no of complaints	cummulative %	highlighted bars	remaining bars
2	delay in registration	43	35.25%	target : =B15/100	#N/A
3	room cleaning	34	63.11%	34	#N/A
4	food quality	17	77.05%	17	#N/A
5	delay in room service	9	84.43%	#N/A	9
6	staff attitude	6	89.34%	#N/A	6
7	room interiors	6	94.26%	#N/A	6
8	air conditioning	3	96.72%	#N/A	3
9	concierge	2	98.36%	#N/A	2
10	mini bar	2	100.00%	#N/A	2

target	0.72
cummulative value	0.770491803
scroll bar link value	72



7) Select the columns with data : complaint type , cumulative % , highlighted bars and remaining bars -> Insert -> Insert Column Chart -> Clustered Column



8) Right Click on Chart -> Change Chart Type -> Combo -> For cumulative % , select chart type as Line and tick the checkbox in Secondary Axis -> OK

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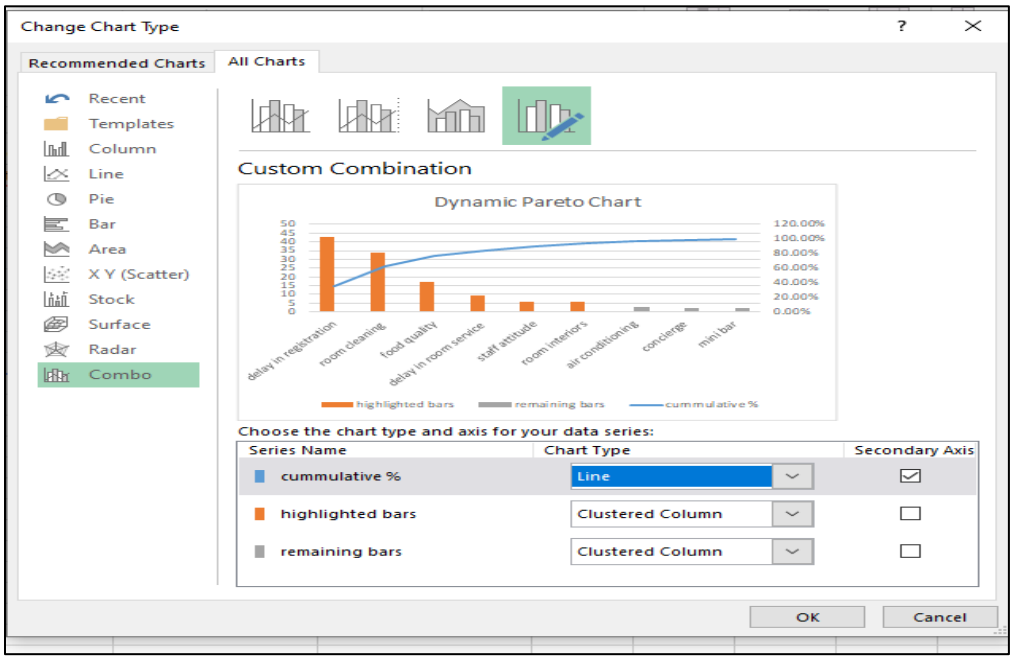
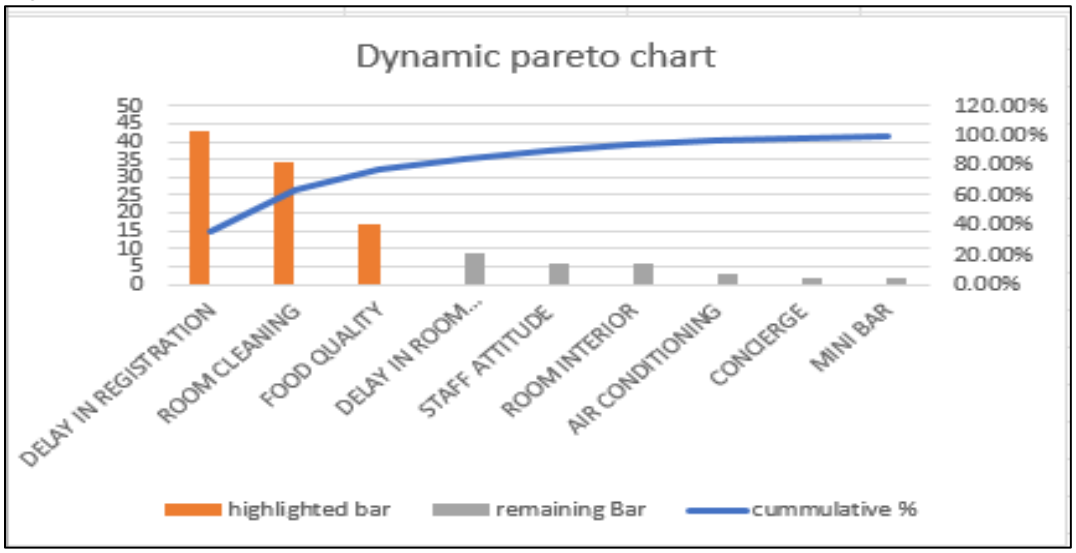


Now on the click of scroll bar , as the values changes the graph reflect the changes for the same

Dynamic Pareto Chart :



A	B	C	D	E
complaint type	no of complaints	cummulative %	highlighted bars	remaining bars
delay in registration	43	35.25%	43	#N/A
room cleaning	34	63.11%	34	#N/A
food quality	17	77.05%	17	#N/A
delay in room service	9	84.43%	#N/A	9
staff attitude	6	89.34%	#N/A	6
room interiors	6	94.26%	#N/A	6
air conditioning	3	96.72%	#N/A	3
concierge	2	98.36%	#N/A	2
mini bar	2	100.00%	#N/A	2
target	70.00%			
cumulative value	77.05%			
scroll bar link value	70			

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PRACTICAL 9

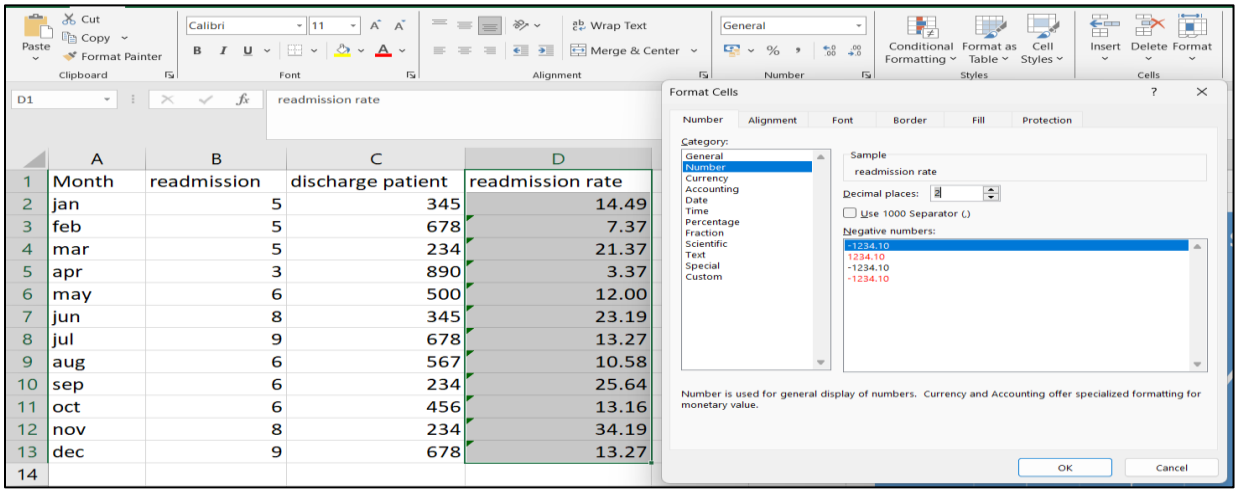
AIM To design Scatter diagram and Run Chart by using excel to perform defect analysis.

STEPS

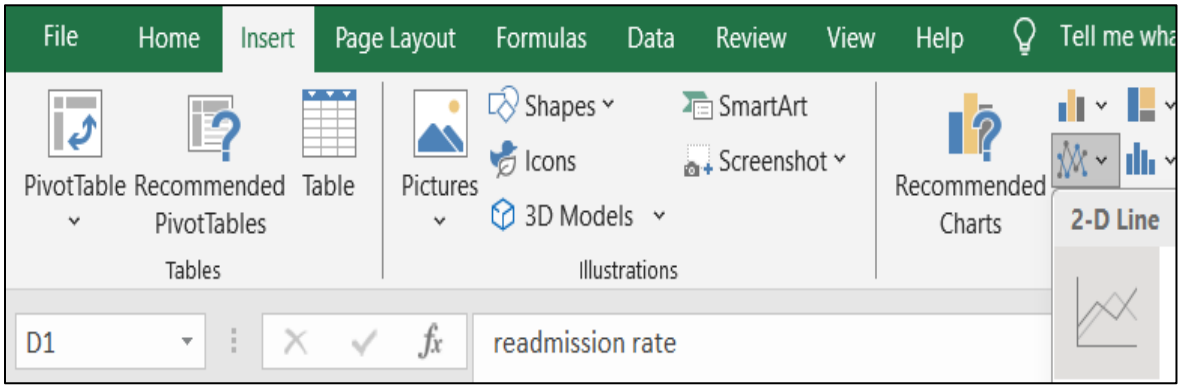
1. Calculate readmission rate with the formula = (readmission/discharged patient) *1000. Apply same formula to all rows.

Month	readmission	discharge patient	readmission rate
jan	5	345	14.49
feb	5	678	7.37
mar	5	234	21.37
apr	3	890	3.37
may	6	500	12.00
jun	8	345	23.19
jul	9	678	13.27
aug	6	567	10.58
sep	6	234	25.64
oct	6	456	13.16
nov	8	234	34.19
dec	9	678	13.27

2. Select readmission rate column right click and select format cell and choose 2 decimal places for Number.



3. Now select readmission rate column again go to Insert and select Line graph to draw Run Chart.



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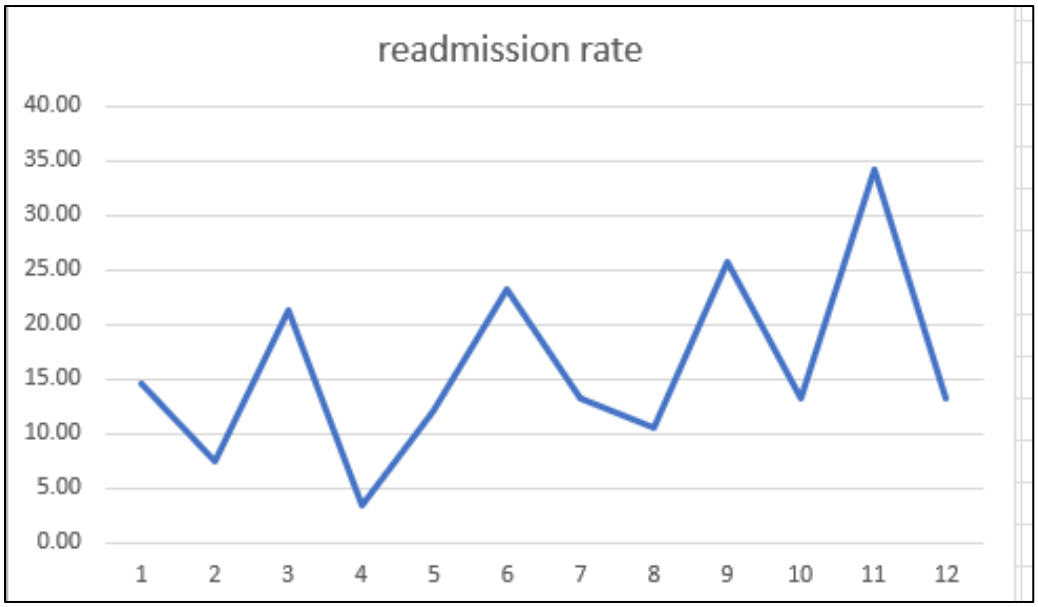
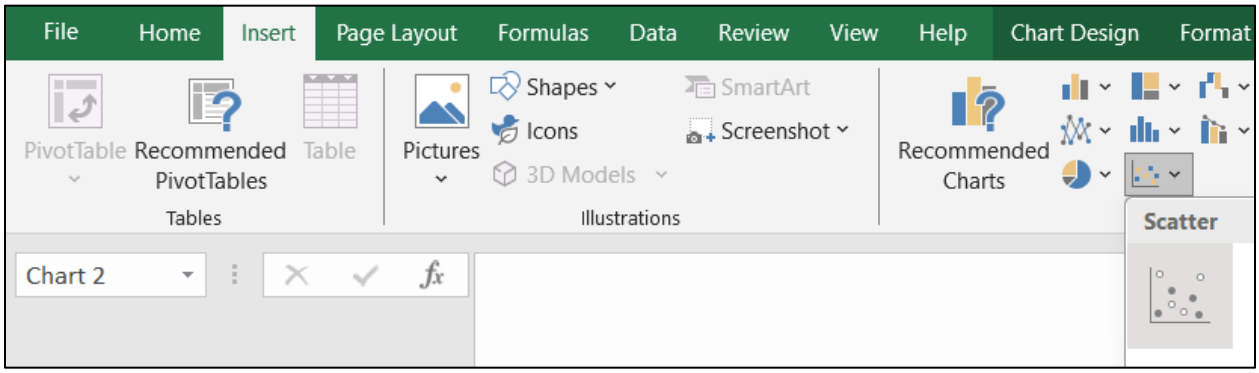
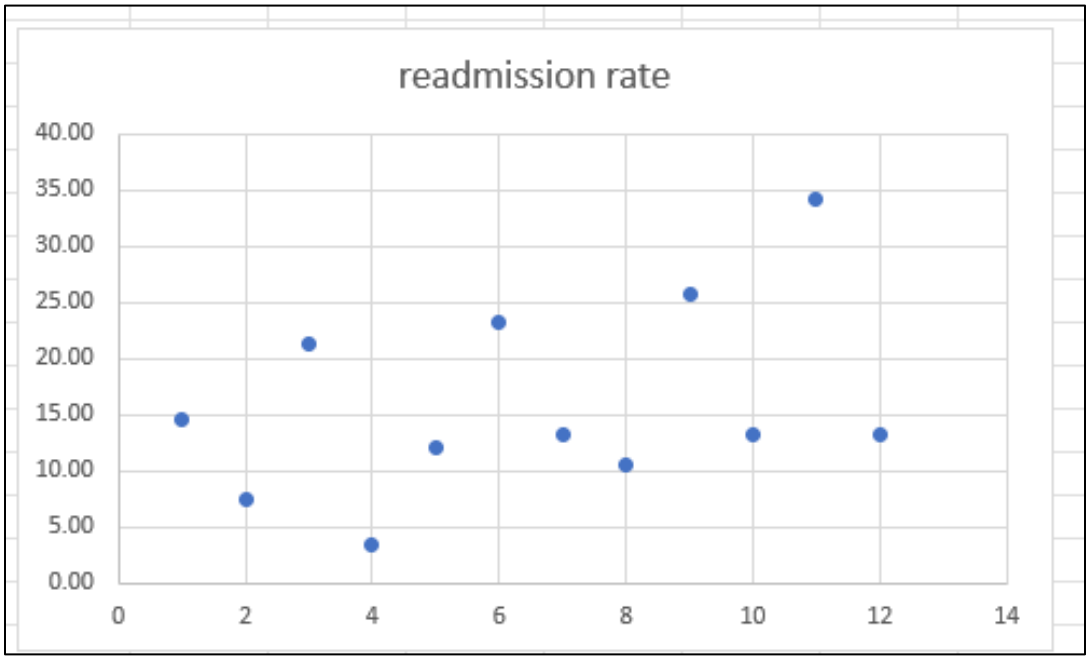
4. Run Chart is ready.



5. Now select readmission rate column again go to Insert and select Scatter chart to draw Scatter Diagram.





NAME:RUSHIKESH MHASKE
ROLL NO: 9142

PRACTICAL 12

AIM: Write and test a program to count the no. of checkboxes on the page checked and unchecked count.

PSEUDOCODE:

1. Start Program
2. Initialize WebDriver to open Edge browser.
3. Navigate to URL: https://getbootstrap.com/docs/5.3/components/button-group/#checkbox-and-radio-button-groups.
4. Find Checkboxes using XPath //input[@type='checkbox'].
    - Initialize counters checkedCount and uncheckedCount.
    - Loop through checkboxes:
        - If selected, increment checkedCount; else, increment uncheckedCount.
5. Print checkbox stats: Total, Checked, Unchecked.
6. Find Radio Buttons using XPath //input[@type='radio'].
7. Print total radio buttons count.
8. Find Labels using tag name label.
9. Print total labels count.
10. Print label texts for each label.
11. End Program.

CODE:

countLink.java

```
package p12_9142;

import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;

public class countLink {
   public static void main(String args[])
   {
      //System.setProperty("webdriver.edge.driver", "D:\STQA\\msedgedriver.exe");
         WebDriver driver = new EdgeDriver();
```

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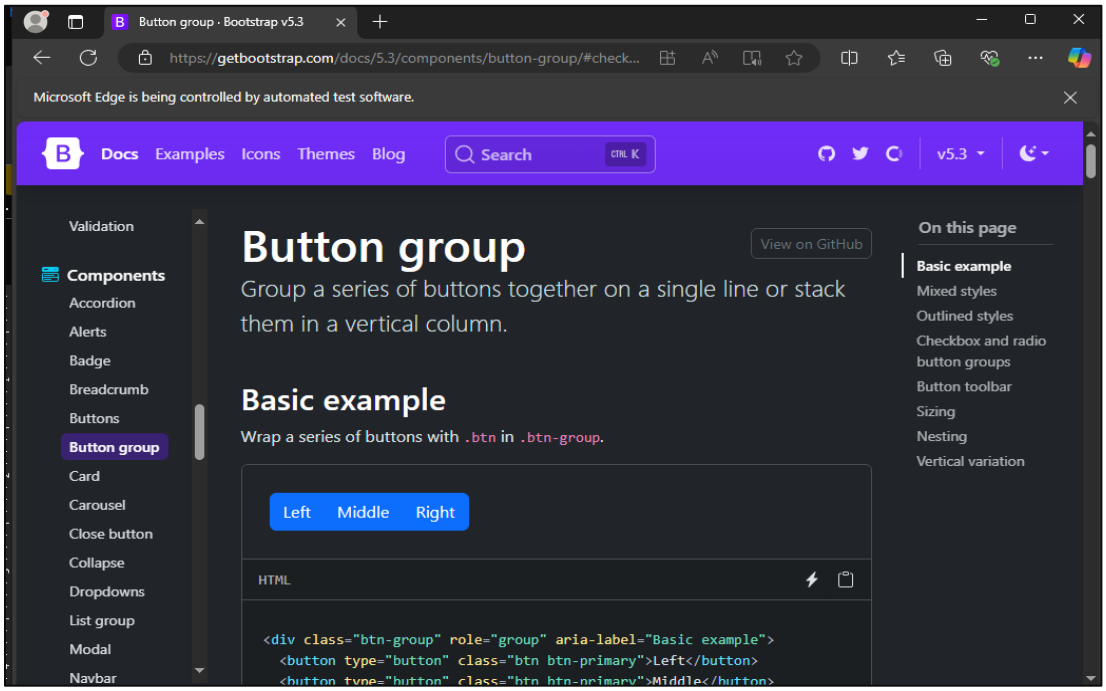
```
driver.get("https://getbootstrap.com/docs/5.3/components/button-group/#checkbox-and-radio-button-groups");

        List<WebElement> checkbox =
           driver.findElements(By.xpath("//input[@type='checkbox']"));
        int checkedcount = 0;
        int unchecked = 0;
        for (int i = 0; i < checkbox.size(); i++) {
           System.out.println(i+" checkbox is selected" + checkbox.get(i).isSelected());
           if (checkbox.get(i).isSelected() == true) {
              checkedcount++;
           } else {
              unchecked++;
           }
        }

        System.out.println("Total number of checkbox " + checkbox.size());
        System.out.println("Number of checked Checkboxs " + checkedcount);
        System.out.println("Number of Unchecked Checkboxs " + unchecked);
        List<WebElement> radiobutton=
           driver.findElements(By.xpath("//input[@type='radio']"));
        System.out.println("Total number of radio buttons " + radiobutton.size());
        List<WebElement> labels = driver.findElements(By.tagName("label"));

        System.out.println("Total Labels are:" + labels.size());
        for (int i=0; i<labels.size(); i=i+1){
           System.out.println("Label "+ i + " Label Name " +labels.get(i).getText());          }
        }
}
```

OUTPUT:



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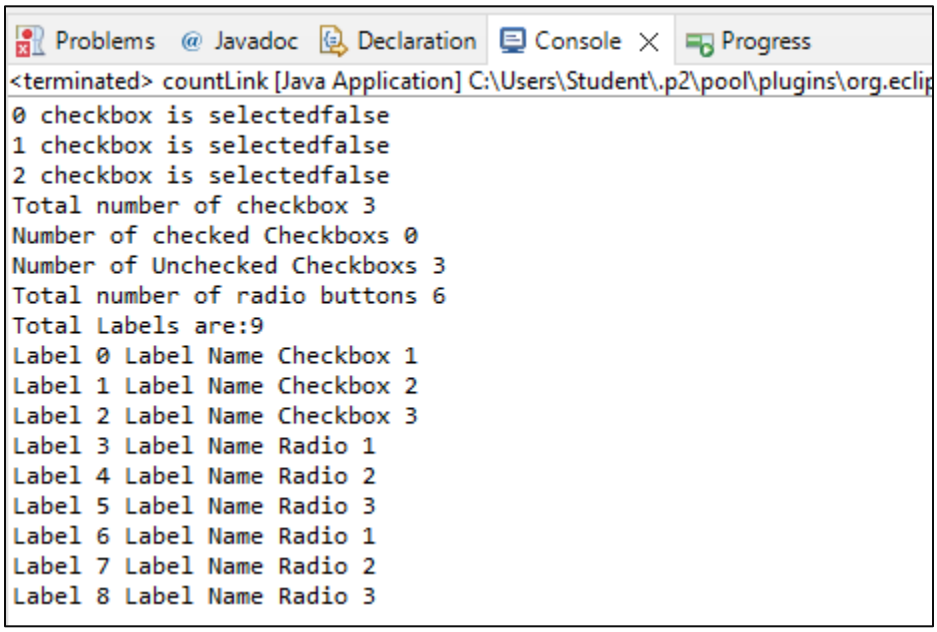

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CLASS: TYCS-A
ROLL NO: 9142

PRACTICAL 7

AIM: Write and test a program to provide a total number of object present/available on the page.

(A)

PSEUDOCODE:

1. Start
2. Set the system property for EdgeDriver with the path to the EdgeDriver executable
3. Initialize the WebDriver instance for Edge browser
4. Open the website "http://www.yahoo.com"/ and “http://www.gogoanimes.fi/”
5. Find all elements with the tag name "a" (anchor tags) on the webpage
6. Store the list of anchor tags in a variable "links"
7. Print the total number of links found
8. Loop through each link in the "links" list:
   a. For each link, print its index (position) and its text content (link name)
9. End

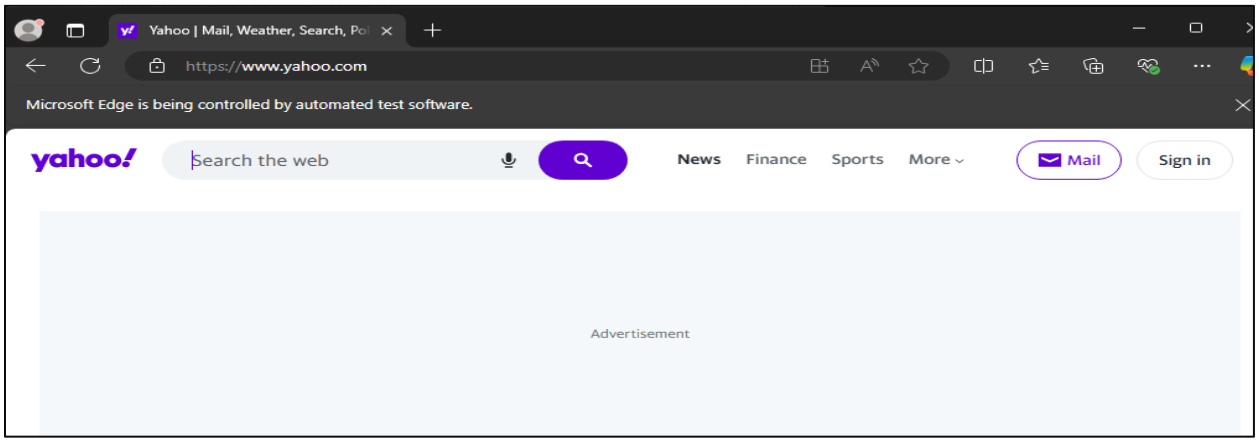
CODE:

```
import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;

public class count_webelement {
	public static void main(String args[]) {
		System.setProperty("webdriver.edge,driver", "D:\\stqa\\msedgedriver.exe");
		WebDriver driver=new EdgeDriver();
		driver.get("http://www.yahoo.com");
		List<WebElement>links=driver.findElements(By.tagName("a"));
		System.out.println("Total links are: "+ links.size());
		for(int i=0;i<links.size();i=i+1) {
			System.out.println("Link" + i + "LinkName" + links.get(i).getText());
		}
	}
}
```

OUTPUT:



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CLASS: TYCS-A
ROLL NO: 9142

```
<terminated> test_9142 [Java Application] C:\Users\Student\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.j
Total links are:373
Link0LinkName
Link1LinkName
Link2LinkName
Link3LinkName
Link4LinkName
Link5LinkName
Link6LinkName
Link7LinkName
Link8LinkName
Link9LinkName
Link10LinkName
Link11LinkName
Link12LinkName
Link13LinkName
```

(B)

CODE:

```
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;

public class count_webelement {
	public static void main(String args[]) {
		System.setProperty("webdriver.edge,driver", "D:\\stqa\\msedgedriver.exe");
		WebDriver driver=new EdgeDriver();
		driver.get("http://www.gogoanimes.fi/");
		List<WebElement>links=driver.findElements(By.tagName("a"));
		System.out.println("Total links are: "+ links.size());
		for(int i=0;i<links.size();i=i+1) {
			System.out.println("Link" + i + "LinkName" + links.get(i).getText());
		}
	}
}
```

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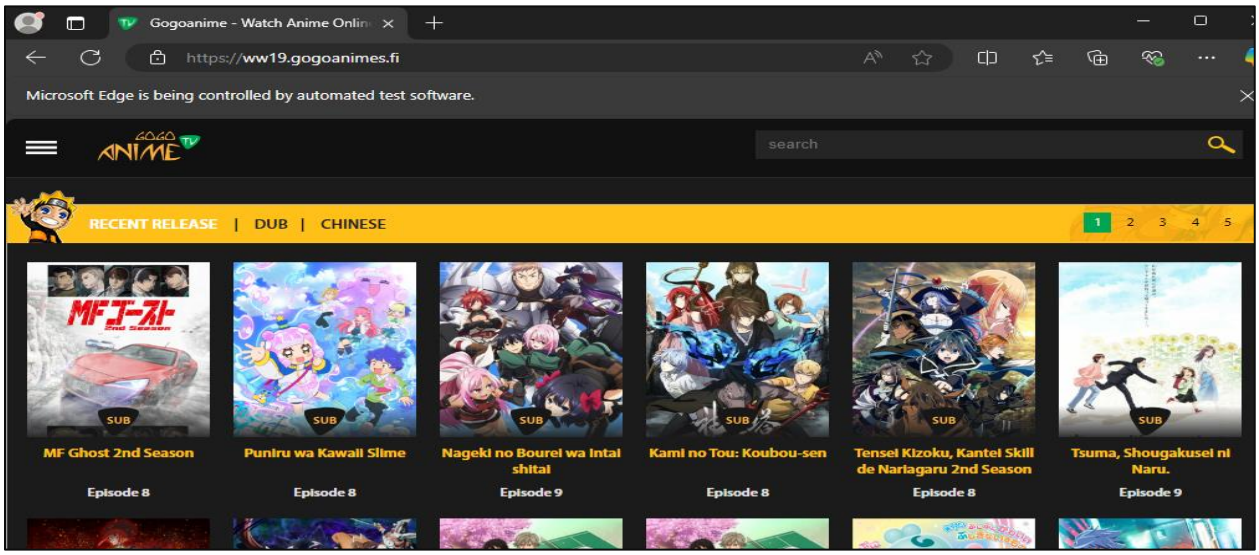
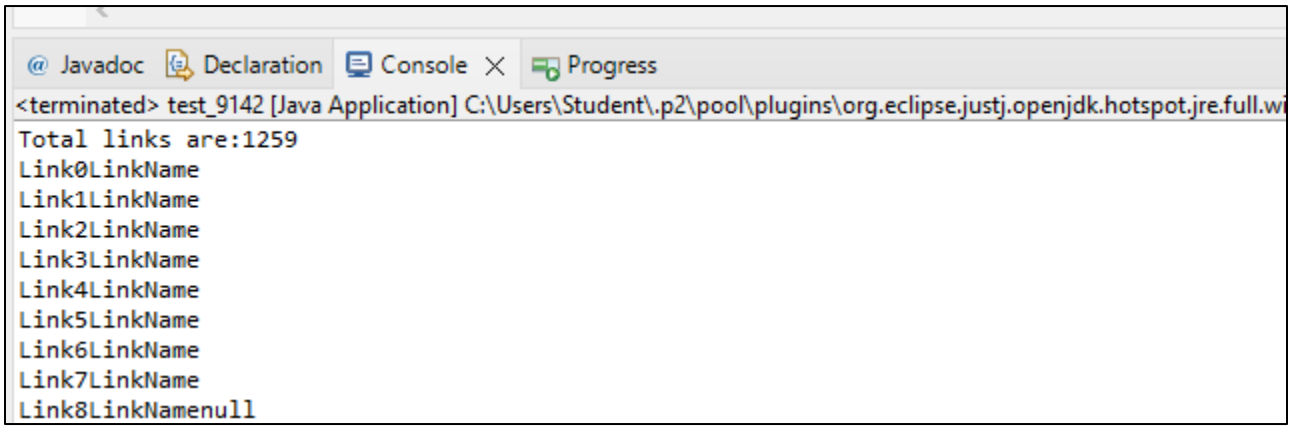
OUTPUT:





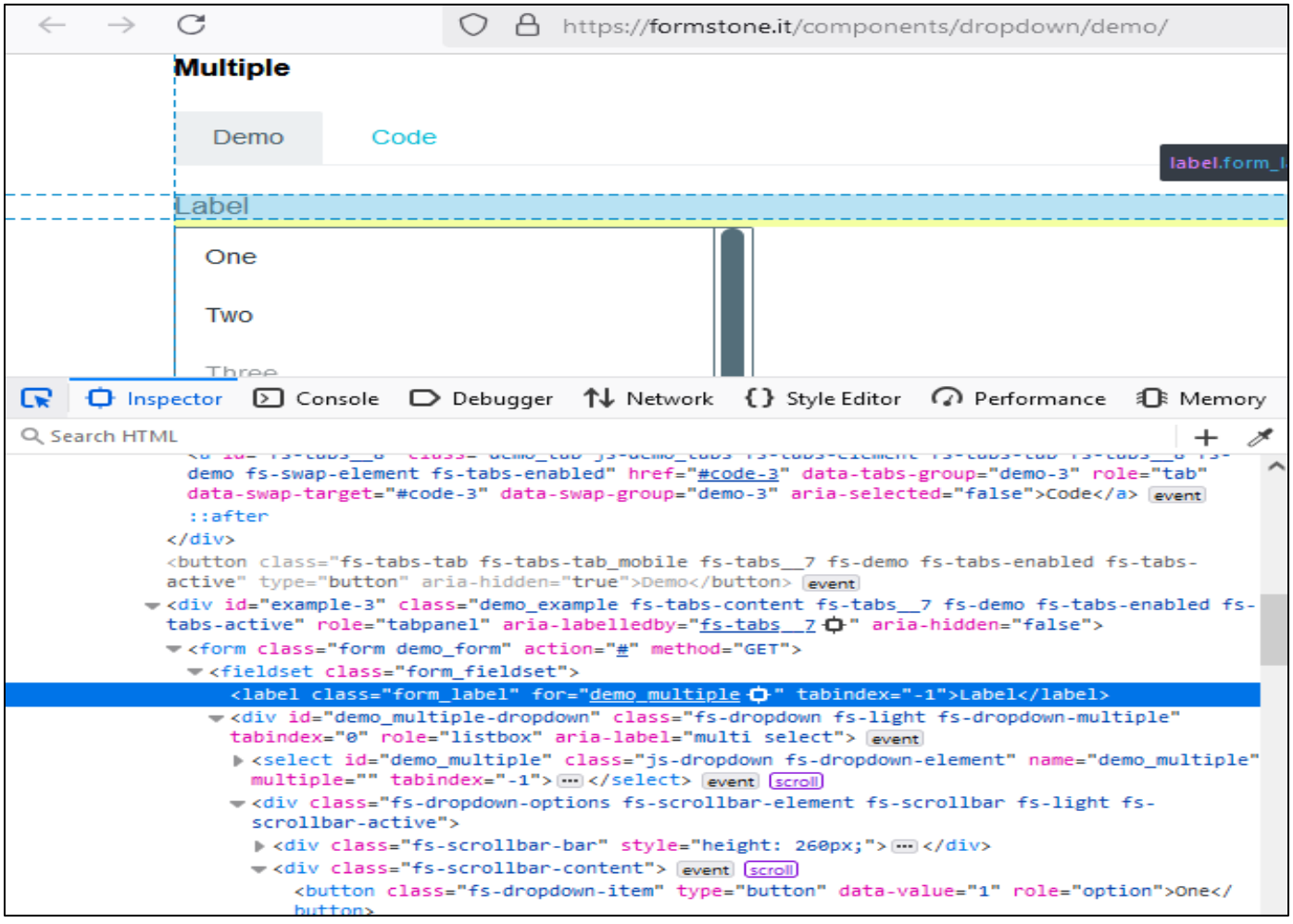
NAME:RUSHIKESH MHASKE
ROLL NO: 9142

PRACTICAL 6

AIM: Write and test a program to get the number of items in a list/ combo box.

PSEUDOCODE

1. start
2. set webdriver_path = "d:\\stqa\\msedgedriver.exe"
3. initialize driver as edgedriver
4. open url "https://formstone.it/components/dropdown/demo"
5. find dropdown element by id "demo_multiple"
6. create select object for the dropdown element
7. get all options in the dropdown and store in options_list
8. get the size of options_list (number of dropdown options)
9. print "total number of items in dropdown list:" followed by size of options_list
10. close browser
11. end



CODE

```
package pr6_9142;

import java.util.List;
import org.openqa.selenium.By;
```

NAME:RUSHIKESH MHASKE
ROLL NO: 9142

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.edge.EdgeDriver;
import org.openqa.selenium.support.ui.Select;

public class p9142 {
	public static void main(String args[]) {
		System.setProperty("webdriver.edge.driver","D:\\stqa\\msedgedriver.exe");
		WebDriver driver=new EdgeDriver();
		driver.get("https://formstone.it/components/dropdown/demo");
		Select selectDropdown=new Select(driver.findElement(By.id("demo_multiple")));
		List<WebElement> listOptionDropdown=selectDropdown.getOptions();
		int dropdownCount=listOptionDropdown.size();
		System.out.println("Total Number of item count in dropdown list:"+ dropdownCount);
		driver.close();

	}
}
```

OUTPUT: