**public** **void** screenshotcapture(WebDriver driver,String filename)

{

**try** {

File src=((TakesScreenshot) driver).getScreenshotAs(OutputType.***FILE***);

FileUtils.*copyFile*(src, **new** File("C:\\jansi\_javafiles\_2\\seleniumui\_practice\\src\\"+filename+".png"));

}

**catch**(Exception e)

{

e.printStackTrace();

}

}

**public** Object[][] readexcelintoarray(String path,String sheetname) **throws** IOException

{

//creates stream btw java code and file

FileInputStream file=**new** FileInputStream(path);

Workbook book=**new** XSSFWorkbook(file);

Sheet sheet=book.getSheet(sheetname);

**int** lastrow\_num=sheet.getLastRowNum();

**int** lastcol\_num=sheet.getRow(0).getLastCellNum();

//define an object array with index

Object[][] data=**new** Object[lastrow\_num][lastcol\_num];

//iterate rows and cols to get from row(1st index) and coln (0th index)

**for**(**int** i=0;i<lastrow\_num;i++)

{

**for**(**int** j=0;j<lastcol\_num;j++)

{

data[i][j]=sheet.getRow(i+1).getCell(j).toString();

}

}

**return** data;

}

**public** Object[][] readexcelintohashmap() **throws** IOException

{

String path="C:\\jansi\_javafiles\_2\\seleniumui\_practice\\Resources\\TestData1.xlsx";

FileInputStream file=**new** FileInputStream(path);

Workbook book=**new** XSSFWorkbook(file);

Sheet sheet=book.getSheet("Sheet1");

**int** lastrow\_num=sheet.getLastRowNum();

**int** lastcol\_num=sheet.getRow(0).getLastCellNum();

Object[][] array=**new** Object[lastrow\_num][1];

**for**(**int** i=0;i<lastrow\_num;i++)

{

//create hashmap inside for loop for row,only then new hashmap will be created for each row,orelse,same hashmap will be added repeatedly in arry or list

HashMap<String,String> hm=**new** HashMap<String, String>();

**for**(**int** j=0;j<lastcol\_num;j++)

{

//key-->0th row and coln gets incremented,value-->1st row and col gets incremented from 0

hm.put(sheet.getRow(0).getCell(j).toString(), sheet.getRow(i+1).getCell(j).toString());

}

//since we have to pass array in data provider,assign hashmap to object arry with 2d

//it has multiple rows(each row is a hashmap,but only one column)

array[i][0]=hm;

}

**return** array;

}

**public** List<HashMap<String, String>> readexcelintolistofmap() **throws** IOException

{

String path="C:\\jansi\_javafiles\_2\\seleniumui\_practice\\Resources\\TestData1.xlsx";

FileInputStream file=**new** FileInputStream(path);

Workbook book=**new** XSSFWorkbook(file);

Sheet sheet=book.getSheet("Sheet1");

**int** lastrow\_num=sheet.getLastRowNum();

**int** lastcol\_num=sheet.getRow(0).getLastCellNum();

//Object[][] array=new Object[lastrow\_num][1];

List<HashMap<String,String>>lst=**new** ArrayList();

**for**(**int** i=0;i<lastrow\_num;i++)

{

//create hashmap inside for loop for row,only then new hashmap will be created for each row,orelse,same hashmap will be added repeatedly in arry or list

HashMap<String,String> hm=**new** HashMap<String, String>();

**for**(**int** j=0;j<lastcol\_num;j++)

{

//key-->0th row and coln gets incremented,value-->1st row and col gets incremented from 0

hm.put(sheet.getRow(0).getCell(j).toString(), sheet.getRow(i+1).getCell(j).toString());

}

lst.add(hm);

//since we have to pass array in data provider,assign hashmap to object arry with 2d

//it has multiple rows(each row is a hashmap,but only one column)

}

**return** lst;

}

**public** Object[][] listofhashmapintoarray(List<HashMap<String, String>> lst) **throws** IOException

{

Object[][] array=**new** Object[lst.size()][1];

**for**(**int** i=0;i<lst.size();i++)

{

array[i][0]=lst.get(i);

}

**return** array;

}