

Reading with Scanner

```
import java.io.File;  
import java.util.Scanner;  
import java.io.FileNotFoundException;  
  
public class ScannerExample {  
    public static void main(String[] args) {  
        File file = new File("data.txt");  
        try (Scanner scanner = new Scanner(file)) {  
            while (scanner.hasNextLine()) {  
                String line = scanner.nextLine();  
                System.out.println(line);  
            }  
        } catch (FileNotFoundException e) {  
            System.err.println("File not found: " + e.getMessage());  
        }  
    }  
}
```

CSV File

```
import java.io.BufferedReader;  
import java.io.File;  
import java.io.FileReader;  
import java.io.IOException;  
  
public class CSVReaderPractice  
{
```

```

public static void main(String args[])
{
    File filepath=new File("D:\\Java\\My Exercise\\CSV\\example.csv");

    try(BufferedReader csv=new BufferedReader(new FileReader(filepath)))
    {
        String line;

        while((line= csv.readLine()) !=null){
            String[] values=line.split(",");
            for (int i = 0; i <values.length; i++) {
                System.out.print(values[i]+" ");
            }
            System.out.println();
        }
    }catch(IOException e)
    {
        System.out.println("An error occurred while reading the file");
        e.printStackTrace();
    }
}

```

Output

apple,orange,mango→apple orange mango

Regex Expression

```
import java.io.BufferedReader;  
import java.io.StringReader;  
import java.io.IOException;  
  
public class CSVReaderExample {  
    public static void main(String[] args) {  
        // Simulating reading from a file by using a string  
        String data = """";  
        Name,Age,City,Occupation  
        "John Doe",30,"New York, NY",Programmer  
        "Jane Smith",25,"Los Angeles, CA",Designer  
        "Alice Johnson",28,"San Francisco, CA","Software Engineer"  
        """;  
  
        BufferedReader br = new BufferedReader(new StringReader(data));  
        try {  
            String line = br.readLine(); // Read and discard the header  
            while ((line = br.readLine()) != null) {  
                String[] values = line.split(",(?=[^\"]*\"[^\"]*\")*[^\"]*$");  
                for (String value : values) {  
                    System.out.print(value.trim() + " | ");  
                }  
                System.out.println(); // Move to a new line after processing each record  
            }  
        } catch (IOException e) {  
            e.printStackTrace();  
        }  
    }  
}
```

```
 }  
 }
```

Output

```
"John Doe" | 30 | "New York, NY" | Programmer |  
"Jane Smith" | 25 | "Los Angeles, CA" | Designer |  
"Alice Johnson" | 28 | "San Francisco, CA" | "Software Engineer" |
```

ObjectOutput/InputStream

```
import java.io.FileInputStream;  
import java.io.FileOutputStream;  
import java.io.IOException;  
import java.io.ObjectInputStream;  
import java.io.ObjectOutputStream;  
  
public class ObjectOutputDemo{  
    public static void main(String[] args) {  
        try(ObjectOutputStream oos=new ObjectOutputStream(new  
FileOutputStream("C:\\Java\\data.bin")))  
        {  
            Person p=new Person("KYAW Gyi", 22);  
            oos.writeObject(p);  
        }catch(IOException e){  
            e.printStackTrace();  
        }  
    }  
}
```

```
try(ObjectInputStream ois=new ObjectInputStream(new  
FileInputStream("C:\\Java\\data.bin")))  
{  
    Person p1=(Person) ois.readObject();  
    System.out.println(p1.toString());  
  
}  
}  
}  
}
```

```
import java.io.Serializable;  
  
public class Person implements Serializable{  
    public String name;  
    public int age;  
  
    public Person(String newName, int newAge){  
        name=newName;  
        age=newAge;  
  
    }  
}
```

```
public String getName()
{
    return name;
}

public int getAge(){
    return age;
}

public String toString(){
    return "name: "+getName()+" age: "+getAge();
}
}
```