

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 occured 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());

}catch(IOException e){
    e.printStackTrace();
}catch(ClassNotFoundException e){
    e.printStackTrace();
}

}
}
```

```
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();  
}  
}
```