Scanner: Input from console

```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        System.out.println(a);
        sc.close();
    }
}
```

Scanner: Input from file

```
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        File file = new File("A.txt");
        try {
                                                     // FileNotFoundException
            Scanner sc = new Scanner(file);
            while(sc.hasNext()){
                int a = sc.nextInt();
                System.out.println(a);
            }
            sc.close();
        } catch (FileNotFoundException e) {
            e.printStackTrace();
        }
    }
}
```

PrintWriter: Write to file

```
import java.io.*;
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        File file = new File("A.txt");
        try {
            PrintWriter out = new PrintWriter(file); // FileNotFoundException
            Scanner sc = new Scanner(System.in);
            out.println(10);
            out.println("abcd");
            out.println(sc.next());
            out.println(sc.nextInt());
            out.close();
            sc.close();
        } catch (FileNotFoundException e) {
            e.printStackTrace();
        }
   }
}
```

Buffered Reader (System.in)

```
import java.io.*;
public class Main {
   public static void main(String[] args) {
      try {
          BufferedReader reader =
             new BufferedReader(new InputStreamReader(System.in));
          String s;
         System.out.println(s);
          }
          reader.close();
                                                // IOException
      } catch (IOException e) {
          e.printStackTrace();
   }
}
```

Buffered Reader/Writer (File)

```
import java.io.*;
public class Main {
    public static void main(String[] args) {
        try {
            BufferedReader reader =
                    new BufferedReader(new FileReader("B.txt"));
                    // FileNotFoundException
            BufferedWriter writer =
                    new BufferedWriter(new FileWriter("A.txt")); //IOException
            String s;
            while((s = reader.readLine())!=null){
                                                          // IOException
                writer.write(s);
                                                           // IOException
                writer.newLine();
                                                           // IOException
            }
            reader.close();
                                                           // IOException
            writer.close();
                                                           // IOException
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```