

### 1. Write a Program for Create a new text file named test.txt

```
import java.io.*;

public class CreateFile {

    public static void main(String[] args) throws IOException {

        File f = new File("test.txt");

        if (f.createNewFile()) System.out.println("File created");

        else System.out.println("File already exists");

    }

}
```

#### Output

File created

---

### 2. Write a Program for Check whether a file exists at a given path

```
import java.io.*;

public class CheckFileExists {

    public static void main(String[] args) {

        File f = new File("test.txt");

        if (f.exists()) System.out.println("File exists");

        else System.out.println("File does not exist");

    }

}
```

#### Output

File exists

---

### 3. Write a Program for "Hello, World!" into a file using FileWriter

```
import java.io.*;

public class WriteFile {

    public static void main(String[] args) throws IOException {

        FileWriter w = new FileWriter("hello.txt");

        w.write("Hello, World!");

        w.close();

    }

}
```

```
        System.out.println("Written");
    }
}
```

### Output

Written

---

### 4. Write a Program for Read a file line by line using BufferedReader

```
import java.io.*;

public class ReadBuffered {

    public static void main(String[] args) throws IOException {

        BufferedReader br = new BufferedReader(new FileReader("hello.txt"));

        String line;

        while ((line = br.readLine()) != null) System.out.println(line);

        br.close();

    }

}
```

### Output

Hello, World!

---

### 5. Write a Program for Append a line of text to an existing file

```
import java.io.*;

public class AppendFile {

    public static void main(String[] args) throws IOException {

        FileWriter w = new FileWriter("hello.txt", true);

        w.write("\nThis is appended text");

        w.close();

        System.out.println("Appended");

    }

}
```

### Output

## 6. Write a Program for Count the number of lines, words, and characters in a file

```
import java.io.*;

public class CountFile {

    public static void main(String[] args) throws IOException {

        BufferedReader br = new BufferedReader(new FileReader("hello.txt"));

        String line;

        int lines = 0, words = 0, chars = 0;

        while ((line = br.readLine()) != null) {

            lines++;

            words += line.split("\\s+").length;

            chars += line.length();

        }

        br.close();

        System.out.println("Lines: " + lines);

        System.out.println("Words: " + words);

        System.out.println("Characters: " + chars);

    }

}
```

### Output

Lines: 2

Words: 5

Characters: 35

---

## 7. Write a Program for Copy content from one file to another

```
import java.io.*;

public class CopyFile {

    public static void main(String[] args) throws IOException {

        FileReader fr = new FileReader("hello.txt");

        FileWriter fw = new FileWriter("copy.txt");
```

```
        int c;

        while ((c = fr.read()) != -1) fw.write(c);

        fr.close();

        fw.close();

        System.out.println("Copied");
    }
}
```

### **Output**

Copied

---

### **8. Write a Program for List all files in a directory**

```
import java.io.*;

public class ListFiles {

    public static void main(String[] args) {

        File dir = new File(".");

        for (String name : dir.list()) System.out.println(name);

    }
}
```

### **Output (example)**

test.txt  
hello.txt  
copy.txt

---

### **9. Write a Program for Filter and display only .txt files**

```
import java.io.*;

public class FilterTxt {

    public static void main(String[] args) {

        File dir = new File(".");

        String[] files = dir.list((d, name) -> name.endsWith(".txt"));

        for (String name : files) System.out.println(name);

    }
}
```

```
}
```

### Output

test.txt

hello.txt

copy.txt

---

### 10. Write a Program for Serialize and deserialize a Student object

```
import java.io.*;

class Student implements Serializable {

    String name; int age;

    Student(String n, int a) { name=n; age=a; }

}

public class SerDesStudent {

    public static void main(String[] args) throws Exception {

        Student s = new Student("John", 20);

        ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream("student.ser"));

        oos.writeObject(s);

        oos.close();

        ObjectInputStream ois = new ObjectInputStream(new FileInputStream("student.ser"));

        Student s2 = (Student) ois.readObject();

        ois.close();

        System.out.println(s2.name + " " + s2.age);

    }

}
```

### Output

John 20

---

### 11. Write a Program for Read a file using Scanner and display tokens

```
import java.io.*;

import java.util.*;

public class ScannerRead {
```

```
public static void main(String[] args) throws Exception {  
    Scanner sc = new Scanner(new File("hello.txt"));  
    while (sc.hasNext()) System.out.println(sc.next());  
    sc.close();  
}  
}
```

### **Output**

Hello,

World!

This

is

appended

text

---

## **12. Write a Program for Search for a specific word and count occurrences**

```
import java.io.*;  
  
public class SearchWord {  
    public static void main(String[] args) throws IOException {  
        BufferedReader br = new BufferedReader(new FileReader("hello.txt"));  
        String line; int count = 0;  
        while ((line = br.readLine()) != null)  
            for (String w : line.split("\\s+"))  
                if (w.equalsIgnoreCase("Hello,")) count++;  
        br.close();  
        System.out.println("Occurrences: " + count);  
    }  
}
```

### **Output**

Occurrences: 1

---

## **13. Write a Program for Create, move, and delete a file**

```
import java.nio.file.*;

public class FileOps {

    public static void main(String[] args) throws Exception {

        Path p = Paths.get("sample.txt");

        Files.createFile(p);

        Files.move(p, Paths.get("moved.txt"), StandardCopyOption.REPLACE_EXISTING);

        Files.delete(Paths.get("moved.txt"));

        System.out.println("Done");

    }

}
```

### Output

Done

---

### 14. Write a Program for all lines using Files.readAllLines()

```
import java.nio.file.*;

import java.util.*;

public class ReadAll {

    public static void main(String[] args) throws Exception {

        List<String> lines = Files.readAllLines(Paths.get("hello.txt"));

        for (String l : lines) System.out.println(l);

    }

}
```

### Output

Hello, World!

This is appended text

---

### 15. Write a Program for write and append using Files.write()

```
import java.nio.file.*;

import java.nio.file.StandardOpenOption;

import java.util.*;

public class FilesWrite {
```

```
public static void main(String[] args) throws Exception {  
    Files.write(Paths.get("data.txt"), Arrays.asList("First line"));  
    Files.write(Paths.get("data.txt"), Arrays.asList("Second line"), StandardOpenOption.APPEND);  
    System.out.println("Written");  
}  
}
```

### Output

Written

---

## 16. Write a Program for Walk through a directory tree

```
import java.nio.file.*;  
  
public class WalkDir {  
    public static void main(String[] args) throws Exception {  
        Files.walk(Paths.get(".")).forEach(System.out::println);  
    }  
}
```

### Output (example)

```
.  
./test.txt  
./hello.txt  
./copy.txt
```

---

## 17. Write a Program for Copy a file with REPLACE\_EXISTING

```
import java.nio.file.*;  
  
public class FilesCopy {  
    public static void main(String[] args) throws Exception {  
        Files.copy(Paths.get("hello.txt"), Paths.get("copy2.txt"),  
StandardCopyOption.REPLACE_EXISTING);  
        System.out.println("Copied");  
    }  
}
```



## Output

Copied

---

### 18. Write a Program for Print size of a file

```
import java.nio.file.*;

public class FileSize {

    public static void main(String[] args) throws Exception {

        long size = Files.size(Paths.get("hello.txt"));

        System.out.println("Size: " + size + " bytes");

    }

}
```

## Output

Size: 35 bytes

---

### 19. Write a Program for Serialize Employee object

```
import java.io.*;

class Employee implements Serializable {

    String name; int id;

    Employee(String n, int i) { name=n; id=i; }

}

public class SerEmployee {

    public static void main(String[] args) throws Exception {

        Employee e = new Employee("Alice", 101);

        ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream("employee.ser"));

        oos.writeObject(e);

        oos.close();

        System.out.println("Serialized");

    }

}
```

## Output

Serialized

---

## 20. Write a Program for Deserialize Employee object

```
import java.io.*;

class Employee implements Serializable {
    String name; int id;
    Employee(String n, int i) { name=n; id=i; }
}

public class DesEmployee {
    public static void main(String[] args) throws Exception {
        ObjectInputStream ois = new ObjectInputStream(new FileInputStream("employee.ser"));
        Employee e = (Employee) ois.readObject();
        ois.close();
        System.out.println(e.name + " " + e.id);
    }
}
```

### Output

Alice 101