

1. Write a program to create a new file named test.txt ?

Program :

```
package Day10;

import java.io.File;
import java.io.IOException;

public class Create_file {

    public static void main(String[] args) {

        try {

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

            if (file.createNewFile()) {

                System.out.println("File created: " + file.getName());

            } else {

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

            }

        } catch (IOException e) {

            System.out.println("An error occurred.");

            e.printStackTrace();

        }

    }

}
```

Ouptut : File created: test.txt

2. Write a java program to check whether a file exists at agiven path ?

Program :

```
package Day10;

import java.io.File;

public class File_exists {

    public static void main(String[] args) {

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

        if (file.exists()) {

            System.out.println("File exists at: " + file.getAbsolutePath());

        }

    }

}
```

```

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

```

Output : File exists at: C:\Users\k devendra\eclipse-workspace\Assignments\test.txt

3. Write a Java program to write "Hello, World!" into a file using FileWriter ?

Program :

```

package File_Handling;

import java.io.BufferedWriter;
import java.io.FileWriter;
import java.io.IOException;

public class write_file {
    public static void main(String[] args) {
        try {
            BufferedWriter w = new BufferedWriter(new FileWriter("Sample.txt"));
            w.write("Hello World");
            w.close();
            System.out.println("Write file successfully");
        } catch (IOException e) {
            System.out.println("Error: " + e );
            e.printStackTrace();
        }
    }
}

```

Output : Write file successfully

4. Write a program to read the content of a file line by line using BufferedReader ?

Program :

```

package Day10;

```

```

import java.io.BufferedReader;

import java.io.FileReader;

import java.io.IOException;

public class Read_File {

    public static void main(String[] args) {

        try (BufferedReader br = new BufferedReader(new FileReader("test.txt"))) {

            String line;

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

                System.out.println(line);

            }

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}

```

Output : Hello World

5. Write a program to append a line of text to an existing file ?

Program :

```

package Day10;

import java.io.FileWriter;

import java.io.IOException;

public class Append_File {

    public static void main(String[] args) {

        try (FileWriter fw = new FileWriter("test.txt", true)) {

            fw.write("\nThis is an appended line.");

            System.out.println("Appended to file.");

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}

```

```
}  
}
```

Output : Appended to file.

6. Write a program to count the number of lines, words, and characters in a file.

Program :

```
package Day10;  
  
import java.io.BufferedReader;  
import java.io.FileReader;  
import java.io.IOException;  
  
public class Count {  
    public static void main(String[] args) {  
        int lines = 0, words = 0, chars = 0;  
        try (BufferedReader br = new BufferedReader(new FileReader("test.txt"))) {  
            String line;  
            while ((line = br.readLine()) != null) {  
                lines++;  
                chars += line.length();  
                words += line.split("\\s+").length;  
            }  
            System.out.println("Lines: " + lines);  
            System.out.println("Words: " + words);  
            System.out.println("Characters: " + chars);  
        } catch (IOException e) {  
            e.printStackTrace();  
        }  
    }  
}
```

Output : Lines: 2

Words: 7

Characters: 36

7. Write a program to copy content from one file to another using FileReader and FileWriter.

Program :

```
package Day10;

import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;

public class Copy_File {

    public static void main(String[] args) {

        try (FileReader fr = new FileReader("test.txt");
            FileWriter fw = new FileWriter("copy.txt")) {

            int c;

            while ((c = fr.read()) != -1) {

                fw.write(c);

            }

            System.out.println("File copied successfully.");

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}
```

Output : File copied successfully.

8. Write a program that lists all the files in a directory.

Program :

```
package Day10;

import java.io.File;

public class All_Files {

    public static void main(String[] args) {

        File dir = new File(".");

        String[] files = dir.list();

    }

}
```

```

    if (files != null) {
        for (String file : files) {
            System.out.println(file);
        }
    }
}

```

Output : .classpath  
 .project  
 .settings  
 bin  
 copy.txt  
 src  
 student.ser  
 student.txt  
 test.txt  
 userinput.txt

9. Write a program to filter and display only .txt files from a folder using FilenameFilter.

Program :

```

import java.io.File;
import java.io.FilenameFilter;

public class FilterTxtFiles {
    public static void main(String[] args) {
        File dir = new File(".");
        FilenameFilter filter = (f, name) -> name.endsWith(".txt");
        String[] txtFiles = dir.list(filter);
        if (txtFiles != null) {
            for (String name : txtFiles) {
                System.out.println(name);
            }
        }
    }
}

```

Output : copy.txt

student.txt  
test.txt  
userinput.txt

10. Write a program to serialize and deserialize a Student object to and from a file.

Program :

```
package File_Handling;

import java.io.*;

public class Student implements Serializable {

    int rollno;

    String name;

    Student(int id, String name) {

        this.rollno = id;

        this.name = name;

    }

    void display() {

        System.out.println("Rollno : " + rollno + " Name : " + name );

    }

}

package File_Handling;

import java.io.*;

public class Se_data {

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

        Student s1 = new Student(101, "Virat");

        FileOutputStream fos = new FileOutputStream("student.ser");

        ObjectOutputStream oos = new ObjectOutputStream(fos);

        oos.writeObject(s1);

        oos.close();

        fos.close();

        System.out.println("Serialized done successfully");

    }

}
```

```

    }
}

package File_Handling;

import java.io.*;

public class De_data {

    public static void main(String[] args) {

        try {

            FileInputStream fis = new FileInputStream("student.ser");

            ObjectInputStream ois = new ObjectInputStream(fis);

            Student s1 = (Student) ois.readObject();

            ois.close();

            fis.close();

            System.out.println("Deserialization Done successfully");

            s1.display();

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

}

```

Output : Serialized done successfully  
Deserialization Done successfully  
Rollno : 101 Name : Virat

11. Write a program to read a file using Scanner and display the tokens.

Program :

```

package Day10;

import java.io.File;

import java.io.FileNotFoundException;

import java.util.Scanner;

public class Read_File_Scanner {

    public static void main(String[] args) {

        try (Scanner sc = new Scanner(new File("test.txt"))) {

```



```

        while (sc.hasNext()) {
            System.out.println(sc.next());
        }
    } catch (FileNotFoundException e) {
        e.printStackTrace();
    }
}
}

```

Output : Hello  
World  
This  
is  
an  
appended  
line.

12. Write a program to search for a specific word in a file and count its occurrences.

Program :

```

package Day10;

import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;

public class Search {
    public static void main(String[] args) {
        String wordToFind = "Hello";
        int count = 0;
        try (BufferedReader br = new BufferedReader(new FileReader("test.txt"))) {
            String line;
            while ((line = br.readLine()) != null) {
                String[] words = line.split("\\s+");
                for (String w : words) {
                    if (w.equalsIgnoreCase(wordToFind)) {
                        count++;
                    }
                }
            }
        }
    }
}

```

```

        }
    }
}

System.out.println("Occurrences of '" + wordToFind + "': " + count);
} catch (IOException e) {
    e.printStackTrace();
}
}
}

```

Output : Occurrences of 'Hello': 1

13. Write a program to create, move, and delete a file using Files and Paths.

Program :

```

package Day10;

import java.io.IOException;
import java.nio.file.*;

public class File_Ops {

    public static void main(String[] args) {

        Path source = Paths.get("tempfile.txt");
        Path target = Paths.get("movedfile.txt");

        try {

            Files.createFile(source);

            System.out.println("File created: " + source);

            Files.move(source, target, StandardCopyOption.REPLACE_EXISTING);

            System.out.println("File moved to: " + target);

            Files.delete(target);

            System.out.println("File deleted: " + target);

```

```

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

```

Output : File created: tempfile.txt  
 File moved to: movedfile.txt  
 File deleted: movedfile.txt

14. Write a program to read all lines of a file using `Files.readAllLines()` and print them.

Program :

```

package Day10;

import java.io.IOException;
import java.nio.file.*;
import java.util.List;

public class Read_Lines {

    public static void main(String[] args) {

        try {

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

            for (String line : lines) {

                System.out.println(line);

            }

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}

```

Output : Hello World  
 This is an appended line.

15. Write a program to write data into a file using `Files.write()` and append using `StandardOpenOption.APPEND`.

Program :

```

package Day10;

import java.io.IOException;

import java.nio.file.*;

import java.nio.file.StandardOpenOption;

import java.util.Arrays;

public class File_append {

    public static void main(String[] args) {

        try {

            Path path = Paths.get("niofile.txt");

            Files.write(path, Arrays.asList("First line", "Second line"));

            Files.write(path, Arrays.asList("Appended line"), StandardOpenOption.APPEND);

            System.out.println("Write and append completed.");

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}

```

Output : Write and append completed.

16. Write a program to walk through a directory tree and display file names using Files.walk().

Program :

```

package Day10;

import java.io.IOException;

import java.nio.file.*;

public class Dir_Files {

    public static void main(String[] args) {

        try {

            Files.walk(Paths.get("."))

```

```

        .forEach(System.out::println);
    } catch (IOException e) {
        e.printStackTrace();
    }
}
}

```

Output : .

```

.\classpath
.\project
.\settings
.\settings\org.eclipse.core.resources.prefs
.\settings\org.eclipse.jdt.core.prefs
.\bin
.\bin\Day10
.\bin\Day10\Test.class
.\bin\Day11
.\bin\Day11\Test.class
.\bin\Day4_Abstraction
.\bin\Day4_Abstraction\Account.class
.\bin\Day4_Abstraction\BankInterface.class
.\bin\Day4_Abstraction\Bank_A.class
.\bin\Day4_Abstraction\Bike.class
.\bin\Day4_Abstraction\Car.class
.\bin\Day4_Abstraction\Circle.class
.\bin\Day4_Abstraction\CurrentAccount.class
.\bin\Day4_Abstraction\Drawable.class
.\bin\Day4_Abstraction\Person.class
.\bin\Day4_Abstraction\Person_A.class
.\bin\Day4_Abstraction\Phone_A.class
.\bin\Day4_Abstraction\Professor.class
.\bin\Day4_Abstraction\Rectangle.class
.\bin\Day4_Abstraction\SavingsAccount.class
.\bin\Day4_Abstraction\Shape.class
.\bin\Day4_Abstraction\Shape_A.class
.\bin\Day4_Abstraction\SmartDevice.class
.\bin\Day4_Abstraction\SmartPhone.class
.\bin\Day4_Abstraction\SmartSpeaker.class
.\bin\Day4_Abstraction\SmartWatch.class
.\bin\Day4_Abstraction\Student.class
.\bin\Day4_Abstraction\TeachingAssistant.class
.\bin\Day4_Abstraction\Triangle.class
.\bin\Day4_Abstraction\Truck.class

```

.\\bin\\Day4\_Abstraction\\Vehicle.class  
.\\bin\\Day4\_Abstraction\\Vehicle\_A.class  
.\\bin\\Day4\_Inheritance  
.\\bin\\Day4\_Inheritance\\Accountant.class  
.\\bin\\Day4\_Inheritance\\After\_12th.class  
.\\bin\\Day4\_Inheritance\\Animal.class  
.\\bin\\Day4\_Inheritance\\Baleno.class  
.\\bin\\Day4\_Inheritance\\BBA.class  
.\\bin\\Day4\_Inheritance\\BCA.class  
.\\bin\\Day4\_Inheritance\\BDS.class  
.\\bin\\Day4\_Inheritance\\Cardiac.class  
.\\bin\\Day4\_Inheritance\\CS.class  
.\\bin\\Day4\_Inheritance\\Doctor.class  
.\\bin\\Day4\_Inheritance\\Documentation.class  
.\\bin\\Day4\_Inheritance\\Dog.class  
.\\bin\\Day4\_Inheritance\\Education\_Heirarchy.class  
.\\bin\\Day4\_Inheritance\\Endo.class  
.\\bin\\Day4\_Inheritance\\Engineering.class  
.\\bin\\Day4\_Inheritance\\FiveSeaterPetrolFourWheeler.class  
.\\bin\\Day4\_Inheritance\\FourWheeler.class  
.\\bin\\Day4\_Inheritance\\Gynac.class  
.\\bin\\Day4\_Inheritance\\Hospital.class  
.\\bin\\Day4\_Inheritance\\Hospital1.class  
.\\bin\\Day4\_Inheritance\\Hospital\_Heirarchy.class  
.\\bin\\Day4\_Inheritance\\Hospital\_In.class  
.\\bin\\Day4\_Inheritance\\IT.class  
.\\bin\\Day4\_Inheritance\\MBBS.class  
.\\bin\\Day4\_Inheritance\\Mech.class  
.\\bin\\Day4\_Inheritance\\Medical.class  
.\\bin\\Day4\_Inheritance\\Nurse.class  
.\\bin\\Day4\_Inheritance\\OPD.class  
.\\bin\\Day4\_Inheritance\\Operation.class  
.\\bin\\Day4\_Inheritance\\Other\_Courses.class  
.\\bin\\Day4\_Inheritance\\Patient.class  
.\\bin\\Day4\_Inheritance\\Payments.class  
.\\bin\\Day4\_Inheritance\\PetrolFourWheeler.class  
.\\bin\\Day4\_Inheritance\\Super\_key.class  
.\\bin\\Day4\_Inheritance\\Vehicle.class  
.\\bin\\Day4\_Inheritance\\Vehicle\_In.class  
.\\bin\\Day4\_Polymorphism  
.\\bin\\Day4\_Polymorphism\\Bank.class  
.\\bin\\Day4\_Polymorphism\\Bank\_P.class  
.\\bin\\Day4\_Polymorphism\\Bike.class  
.\\bin\\Day4\_Polymorphism\\Calculator.class  
.\\bin\\Day4\_Polymorphism\\Calculator\_P.class

.\\bin\\Day4\_Polymorphism\\Circle.class  
.\\bin\\Day4\_Polymorphism\\HDFC.class  
.\\bin\\Day4\_Polymorphism\\ICICI.class  
.\\bin\\Day4\_Polymorphism\\Rectangle.class  
.\\bin\\Day4\_Polymorphism\\SBI.class  
.\\bin\\Day4\_Polymorphism\\Shape.class  
.\\bin\\Day4\_Polymorphism\\Shape\_P.class  
.\\bin\\Day4\_Polymorphism\\Vehicle.class  
.\\bin\\Day4\_Polymorphism\\Vehicle\_P.class  
.\\bin\\Day5\_Encapsulation  
.\\bin\\Day5\_Encapsulation\\Rectangle.class  
.\\bin\\Day5\_Encapsulation\\Student.class  
.\\bin\\Day5\_Encapsulation\\Test.class  
.\\bin\\Day5\_Interface  
.\\bin\\Day5\_LambdaExpressions  
.\\bin\\Day5\_LambdaExpressions\\LambdaEvenOdd.class  
.\\bin\\Day5\_LambdaExpressions\\LambdaFactorial.class  
.\\bin\\Day5\_LambdaExpressions\\LambdaSum.class  
.\\bin\\Day5\_LambdaExpressions\\String\_Empty.class  
.\\bin\\Day5\_LambdaExpressions\\SumCalculator.class  
.\\bin\\Day6  
.\\bin\\Day6\\Test.class  
.\\bin\\Day7  
.\\bin\\Day7\\Test.class  
.\\bin\\Day8  
.\\bin\\Day8\\ArrayListClear\_Q7.class  
.\\bin\\Day8\\ArrayListCopy\_Q10.class  
.\\bin\\Day8\\ArrayListIterator\_Q8.class  
.\\bin\\Day8\\ArrayListRemoveElement\_Q3.class  
.\\bin\\Day8\\ArrayListReverse\_Q5.class  
.\\bin\\Day8\\ArrayListSearch\_Q2.class  
.\\bin\\Day8\\ArrayListSort\_Q4.class  
.\\bin\\Day8\\ArrayListStudent\_Q9.class  
.\\bin\\Day8\\ArrayListUpdate\_Q6.class  
.\\bin\\Day8\\Deque\_Q1.class  
.\\bin\\Day8\\Deque\_Q2.class  
.\\bin\\Day8\\Deque\_Q3.class  
.\\bin\\Day8\\HashSetCities\_Q1.class  
.\\bin\\Day8\\HashSetMax\_Q3.class  
.\\bin\\Day8\\HashSetOps\_Q2.class  
.\\bin\\Day8\\LinkedHashSet\_Q1.class  
.\\bin\\Day8\\LinkedHashSet\_Q2.class  
.\\bin\\Day8\\LinkedHashSet\_Q3.class  
.\\bin\\Day8\\LinkedListAddEnds\_Q2.class  
.\\bin\\Day8\\LinkedListBook\_Q9.class

.\\bin\\Day8\\LinkedListClone\_Q10.class  
.\\bin\\Day8\\LinkedListDisplay\_Q1.class  
.\\bin\\Day8\\LinkedListInsert\_Q3.class  
.\\bin\\Day8\\LinkedListIterator\_Q6.class  
.\\bin\\Day8\\LinkedListRemove\_Q4.class  
.\\bin\\Day8\\LinkedListSearch\_Q5.class  
.\\bin\\Day8\\LinkedListSort\_Q7.class  
.\\bin\\Day8\\LinkedListToArrayList\_Q8.class  
.\\bin\\Day8\\PriorityQueue\_Q1.class  
.\\bin\\Day8\\PriorityQueue\_Q2.class  
.\\bin\\Day8\\PriorityQueue\_Q3.class  
.\\bin\\Day8\\Queue\_Q1.class  
.\\bin\\Day8\\Queue\_Q2.class  
.\\bin\\Day8\\Queue\_Q3.class  
.\\bin\\Day8\\Stack\_Q1.class  
.\\bin\\Day8\\Stack\_Q2.class  
.\\bin\\Day8\\Stack\_Q3.class  
.\\bin\\Day8\\Stack\_Q4.class  
.\\bin\\Day8\\Student.class  
.\\bin\\Day8\\TreeSet\_Q1.class  
.\\bin\\Day8\\TreeSet\_Q2.class  
.\\bin\\Day8\\TreeSet\_Q3.class  
.\\bin\\Day8\\VectorCompare\_Q3.class  
.\\bin\\Day8\\VectorInteger\_Q1.class  
.\\bin\\Day8\\VectorString\_Q2.class  
.\\bin\\Day8\\VectorSum\_Q4.class  
.\\bin\\Day9  
.\\bin\\Day9\\AppendToFile.class  
.\\bin\\Day9\\Book.class  
.\\bin\\Day9\\Book1.class  
.\\bin\\Day9\\City.class  
.\\bin\\Day9\\CopyFile.class  
.\\bin\\Day9\\CountWords.class  
.\\bin\\Day9\\CustomObject.class  
.\\bin\\Day9\\DeleteFile.class  
.\\bin\\Day9\\DeserializeStudent.class  
.\\bin\\Day9\\Employee.class  
.\\bin\\Day9\\Employee1.class  
.\\bin\\Day9\\Employee2.class  
.\\bin\\Day9\\FileProperties.class  
.\\bin\\Day9\\Person.class  
.\\bin\\Day9\\PrintFiles.class  
.\\bin\\Day9\\Product.class  
.\\bin\\Day9\\Product1.class  
.\\bin\\Day9\\Product2.class



.\\bin\\Day9\\ReadFile.class  
\\.\\bin\\Day9\\ReplaceFile.class  
\\.\\bin\\Day9\\ReverseFile.class  
\\.\\bin\\Day9\\SearchWord.class  
\\.\\bin\\Day9\\SerializeStudent.class  
\\.\\bin\\Day9\\String\_Sort\$1.class  
\\.\\bin\\Day9\\String\_Sort.class  
\\.\\bin\\Day9\\Student.class  
\\.\\bin\\Day9\\Student1.class  
\\.\\bin\\Day9\\Student4.class  
\\.\\bin\\Day9\\Student\_Desc.class  
\\.\\bin\\Day9\\UserInputFile.class  
\\.\\bin\\Day9\\WriteToFile.class  
\\.\\copy.txt  
\\.\\niofile.txt  
\\.\\src  
\\.\\src\\Day10  
\\.\\src\\Day10\\Test.java  
\\.\\src\\Day11  
\\.\\src\\Day11\\Test.java  
\\.\\src\\Day4\_Abstraction  
\\.\\src\\Day4\_Abstraction\\Bank\_A.java  
\\.\\src\\Day4\_Abstraction\\Person\_A.java  
\\.\\src\\Day4\_Abstraction\\Phone\_A.java  
\\.\\src\\Day4\_Abstraction\\Shape\_A.java  
\\.\\src\\Day4\_Abstraction\\Vehicle\_A.java  
\\.\\src\\Day4\_Inheritance  
\\.\\src\\Day4\_Inheritance\\Education\_Heirarchy.java  
\\.\\src\\Day4\_Inheritance\\Hospital\_Heirarchy.java  
\\.\\src\\Day4\_Inheritance\\Hospital\_In.java  
\\.\\src\\Day4\_Inheritance\\Super\_key.java  
\\.\\src\\Day4\_Inheritance\\Vehicle\_In.java  
\\.\\src\\Day4\_Polymorphism  
\\.\\src\\Day4\_Polymorphism\\Bank\_P.java  
\\.\\src\\Day4\_Polymorphism\\Calculator\_P.java  
\\.\\src\\Day4\_Polymorphism\\Shape\_P.java  
\\.\\src\\Day4\_Polymorphism\\Vehicle\_P.java  
\\.\\src\\Day5\_Encapsulation  
\\.\\src\\Day5\_Encapsulation\\Rectangle.java  
\\.\\src\\Day5\_Encapsulation\\Student.java  
\\.\\src\\Day5\_Encapsulation\\Test.java  
\\.\\src\\Day5\_Interface  
\\.\\src\\Day5\_LambdaExpressions  
\\.\\src\\Day5\_LambdaExpressions\\LambdaEvenOdd.java  
\\.\\src\\Day5\_LambdaExpressions\\LambdaFactorial.java

.\\src\\Day5\_LambdaExpressions\\LambdaSum.java  
.\\src\\Day5\_LambdaExpressions\\String\_Empty.java  
.\\src\\Day6  
.\\src\\Day6\\Test.java  
.\\src\\Day7  
.\\src\\Day7\\Test.java  
.\\src\\Day8  
.\\src\\Day8\\ArrayListClear\_Q7.java  
.\\src\\Day8\\ArrayListCopy\_Q10.java  
.\\src\\Day8\\ArrayListIterator\_Q8.java  
.\\src\\Day8\\ArrayListRemoveElement\_Q3.java  
.\\src\\Day8\\ArrayListReverse\_Q5.java  
.\\src\\Day8\\ArrayListSearch\_Q2.java  
.\\src\\Day8\\ArrayListSort\_Q4.java  
.\\src\\Day8\\ArrayListStudent\_Q9.java  
.\\src\\Day8\\ArrayListUpdate\_Q6.java  
.\\src\\Day8\\Deque\_Q1.java  
.\\src\\Day8\\Deque\_Q2.java  
.\\src\\Day8\\Deque\_Q3.java  
.\\src\\Day8\\HashSetCities\_Q1.java  
.\\src\\Day8\\HashSetMax\_Q3.java  
.\\src\\Day8\\HashSetOps\_Q2.java  
.\\src\\Day8\\LinkedHashSet\_Q1.java  
.\\src\\Day8\\LinkedHashSet\_Q2.java  
.\\src\\Day8\\LinkedHashSet\_Q3.java  
.\\src\\Day8\\LinkedListAddEnds\_Q2.java  
.\\src\\Day8\\LinkedListBook\_Q9.java  
.\\src\\Day8\\LinkedListClone\_Q10.java  
.\\src\\Day8\\LinkedListDisplay\_Q1.java  
.\\src\\Day8\\LinkedListInsert\_Q3.java  
.\\src\\Day8\\LinkedListIterator\_Q6.java  
.\\src\\Day8\\LinkedListRemove\_Q4.java  
.\\src\\Day8\\LinkedListSearch\_Q5.java  
.\\src\\Day8\\LinkedListSort\_Q7.java  
.\\src\\Day8\\LinkedListToArrayList\_Q8.java  
.\\src\\Day8\\PriorityQueue\_Q1.java  
.\\src\\Day8\\PriorityQueue\_Q2.java  
.\\src\\Day8\\PriorityQueue\_Q3.java  
.\\src\\Day8\\Queue\_Q1.java  
.\\src\\Day8\\Queue\_Q2.java  
.\\src\\Day8\\Queue\_Q3.java  
.\\src\\Day8\\Stack\_Q1.java  
.\\src\\Day8\\Stack\_Q2.java  
.\\src\\Day8\\Stack\_Q3.java  
.\\src\\Day8\\Stack\_Q4.java

.\\src\\Day8\\TreeSet\_Q1.java  
.\\src\\Day8\\TreeSet\_Q2.java  
.\\src\\Day8\\TreeSet\_Q3.java  
.\\src\\Day8\\VectorCompare\_Q3.java  
.\\src\\Day8\\VectorInteger\_Q1.java  
.\\src\\Day8\\VectorString\_Q2.java  
.\\src\\Day8\\VectorSum\_Q4.java  
.\\src\\Day9  
.\\src\\Day9\\AppendToFile.java  
.\\src\\Day9\\Book.java  
.\\src\\Day9\\Book1.java  
.\\src\\Day9\\City.java  
.\\src\\Day9\\CopyFile.java  
.\\src\\Day9\\CountWords.java  
.\\src\\Day9\\CustomObject.java  
.\\src\\Day9\\DeleteFile.java  
.\\src\\Day9\\DeserializeStudent.java  
.\\src\\Day9\\Employee.java  
.\\src\\Day9\\Employee1.java  
.\\src\\Day9\\Employee2.java  
.\\src\\Day9\\FileProperties.java  
.\\src\\Day9\\Person.java  
.\\src\\Day9\\PrintFiles.java  
.\\src\\Day9\\Product.java  
.\\src\\Day9\\Product1.java  
.\\src\\Day9\\Product2.java  
.\\src\\Day9\\ReadFile.java  
.\\src\\Day9\\ReplaceFile.java  
.\\src\\Day9\\ReverseFile.java  
.\\src\\Day9\\SearchWord.java  
.\\src\\Day9\\SerializeStudent.java  
.\\src\\Day9\\String\_Sort.java  
.\\src\\Day9\\Student.java  
.\\src\\Day9\\Student1.java  
.\\src\\Day9\\Student\_Desc.java  
.\\src\\Day9\\UserInputFile.java  
.\\src\\Day9\\WriteToFile.java  
.\\student.ser  
.\\student.txt  
.\\test.txt  
.\\userinput.txt

17. Write a program to copy a file using Files.copy() with REPLACE\_EXISTING option.

Program :

```

package Day10;

import java.io.IOException;

import java.nio.file.*;

public class Copy_File {

    public static void main(String[] args) {

        Path source = Paths.get("test.txt");

        Path target = Paths.get("test1.txt");


        try {

            Files.copy(source, target, StandardCopyOption.REPLACE_EXISTING);

            System.out.println("File copied successfully.");

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}

```

Output : File copied successfully.

18. Write a program to check and print the size of a file in bytes using Files.size().

Program :

```

package Day10;

import java.io.IOException;

import java.nio.file.*;

public class File_Size {

    public static void main(String[] args) {

        try {

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

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

        } catch (IOException e) {

            e.printStackTrace();

        }

    }

}

```

```
}  
}
```

Output : File size: 37 bytes

19. Write a program to serialize a class Employee and store it in employee.ser.

Program :

```
package Day10;  
  
import java.io.Serializable;  
  
public class Employee implements Serializable{  
    int id;  
    String name;  
    Employee(int id, String name) {  
        this.id = id;  
        this.name = name;  
        this.toString();  
    }  
    public String toString() {  
        return id + " " + name;  
    }  
}  
  
package Day10;  
  
import java.io.BufferedWriter;  
import java.io.FileWriter;  
import java.io.IOException;  
  
public class Serial_data {  
    public static void main(String[] args) {  
        Employee emp1 = createEmployee(101, "Virat");  
        Employee emp2 = createEmployee(102, "Rohit");  
  
        try {  
            FileWriter fw = new FileWriter("employee.ser");
```

```

        BufferedWriter bw = new BufferedWriter(fw);

        bw.write(emp1.toString());
        bw.newLine();
        bw.write(emp2.toString());
        bw.newLine();

        bw.close();
        fw.close();
        System.out.println("Done");
    } catch (IOException e) {
        System.out.println("Failed");
        System.out.println(e);
    }
}

static Employee createEmployee(int id, String name) {
    return new Employee(id, name);
}
}

```

Output : Done

20. Write a program to deserialize the employee.ser file and display the object data

Program :

```

package Day10

import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;

public class Deserial_data {
    public static void main(String[] args) {
        try {
            FileReader fr = new FileReader("employee.ser");

```

```
        BufferedReader br = new BufferedReader(fr);

        String line;

        System.out.println("Employee Data from file:");

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

            System.out.println(line);

        }

        br.close();

        fr.close();

    } catch (IOException e) {

        System.out.println("Failed to read file");

        System.out.println(e);

    }

}
```

Output : Employee Data from file:

101 Virat

102 Rohit