L8

Ushtrimi 1.

```
import java.io.File;  // Import the File class
import java.io.IOException;  // Import the IOException
class to handle errors

public class Tekst {
  public static void main(String[] args) {
    try {
      File myObj = new File("filename.txt");
      if (myObj.createNewFile()) {
        System.out.println("File created: " +
myObj.getName());
      } else {
        System.out.println("File already exists.");
      }
    } catch (IOException e) {
      System.out.println("An error occurred.");
      e.printStackTrace();
    }
  }
}
```

Ushtrimi 2.

```
import java.io.*;
public class Tekst {  // Pre-JDK 7
   public static void main(String[] args) {
      String inFileStr = "filename.txt";
      String outFileStr = "example.txt";
      BufferedInputStream in = null;
      BufferedOutputStream out = null;
      long startTime, elapsedTime;  // for speed
benchmarking

      // Check file length
      File fileIn = new File(inFileStr);
      System.out.println("File size is " + fileIn.length() + "
bytes");

      try {
         in  = new BufferedInputStream(new
FileInputStream(inFileStr));
         out = new BufferedOutputStream(new
FileOutputStream(outFileStr));
         startTime = System.nanoTime();
         int byteRead;
         while ((byteRead = in.read()) != -1) {  // Read byte-
by-byte from buffer
            out.write(byteRead);
         }
         elapsedTime = System.nanoTime() - startTime;
```

```
        System.out.println("Elapsed Time is " +
(elapsedTime / 1000000.0) + " msec");
      } catch (IOException ex) {
        ex.printStackTrace();
      } finally {           // always close the streams
        try {
          if (in != null) in.close();
          if (out != null) out.close();
        } catch (IOException ex) { ex.printStackTrace(); }
      }
    }
}
```

Ushtrim 3.

```
import java.io.IOException;
import java.nio.file.Files;
import java.nio.file.Path;

public class ShkruajFile
{
   public static void main(String[] args) throws
IOException
   {
      Path fileName = Path.of("Anxhela.txt");
      String content  = "hello world !!";
      Files.writeString(fileName,content);
```

```
        String actual = Files.readString(fileName);
        System.out.println(actual);
    }
}
```

Ushtrimi 4.

```
import java.io.File;  // Import the File class

public class Prove {
  public static void main(String[] args) {
    File myObj = new File("AnxhelaA.txt");
    if (myObj.exists()) {
      System.out.println("Emri i dosejes: " +
myObj.getName());
      System.out.println("Absolute path: " +
myObj.getAbsolutePath());
      System.out.println("SHkruaj: " + myObj.canWrite());
      System.out.println("Lexo " + myObj.canRead());
      System.out.println("Permasa e dosjes ne byte " +
myObj.length());
    } else {
      System.out.println("Kjo dosje nuk ekziston.");
    }
  }
}
```

Ushtrimi 5.

```
import java.io.Reader;
import java.io.FileReader;

public class Prove {
   public static void main(String[] args) {

      // Creates an array of character
      char[] array = new char[100];

      try {
         // Creates a reader using the FileReader
         Reader input = new FileReader("AnxhelaA.txt");

         // Checks if reader is ready
         System.out.println("Is there data in the stream?  "
+ input.ready());

         // Reads characters
         input.read(array);
         System.out.println("Data in the stream:");
         System.out.println(array);

         // Closes the reader
```

```
            input.close();
        }

        catch(Exception e) {
            e.getStackTrace();
        }
    }}
```

Ushtrimi 6.

```
import java.io.FileInputStream;
import java.io.InputStream;

public class Prove {
    public static void main(String args[]) {

        byte[] array = new byte[100];

        try {
            InputStream input = new
FileInputStream("AnxhelaA.txt");

            System.out.println("Byte te disponueshme ne file
" + input.available());

            // Lexo bajtet ne input stream
            input.read(array);
```

```
            System.out.println("Te dhenat ne file: ");

            // Konverto byte array ne string
            String data = new String(array);
            System.out.println(data);

            // Mbyll inputStream
            input.close();
        }
        catch (Exception e) {
            e.getStackTrace();
        }
```

Ushtrim 7.

```
import java.io.*;
import java.util.ArrayList;

public class Prove implements Serializable {
    private String Emri;
    private String Mbiemri;
    private int Ditelindja;

    public Prove(String Emri, String Mbiemri, int
Ditelindja) {
        this.Emri = Emri;
        this.Mbiemri = Mbiemri;
```

```
        this.Ditelindja = Ditelindja;
    }

    @Override
    public String toString() {
        return "Person{" +
                "Emri='" + Emri + '\'' +
                ", Mbiemri='" + Mbiemri + '\'' +
                ", Ditelindja=" + Ditelindja +
                "}\n";
    }

    public static void main(String[] args) {
        Prove p1 = new Prove("Anxhela", "B", 1980);
        Prove p2 = new Prove("Ana", "C", 1990);
        Prove p3 = new Prove("Beni", "D", 1995);

        ArrayList<Prove> individ = new ArrayList<>();

        individ.add(p1);
        individ.add(p2);
       individ.add(p3);

        //write to file
        try{
            FileOutputStream writeData = new
FileOutputStream("individ.ser");
```

```
            ObjectOutputStream writeStream = new
ObjectOutputStream(writeData);

            writeStream.writeObject(individ);
            writeStream.flush();
            writeStream.close();

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

        try{
            FileInputStream readData = new
FileInputStream("individ.ser");
            ObjectInputStream readStream = new
ObjectInputStream(readData);

            ArrayList individ2 = (ArrayList<Prove>)
readStream.readObject();
            readStream.close();

            System.out.println(individ2.toString());
        }catch (IOException | ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
```