

SHA 512 ENCRYPTION ALGO IN JAVA

```
package exercises;

import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

public class SHA512String {

    public static void run() {

        String myMsg = "Hello World!";
        System.out.println(
            "Original message: " + myMsg);

        try {

            MessageDigest md =
                MessageDigest.getInstance("SHA-512");

            byte[] hash =
                md.digest(myMsg.getBytes());

            String msgHash = toHexString(hash);
            System.out.println(
                "Message hash: " + msgHash);
        }
        catch(Exception e) {

        }

    }
}
```

```

static String toHexString(byte[] array) {

    StringBuilder sb =
        new StringBuilder(array.length * 2);

    for (byte b : array) {

        int value = 0xFF & b; // unsigned integer
        String toAppend =
            Integer.toHexString(value);

        sb.append(toAppend).append("-");
    }
    sb.setLength(sb.length() - 1);

    return sb.toString().toUpperCase();
}
}

```