CRYPTOGRAPHY-LAB-12

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1) SHA-512

CODE:

```
import java.math.BigInteger;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

public class Main {

    public static String encryptThisString(String input) {

        try {

            MessageDigest md = MessageDigest.getInstance("SHA-512");
            byte[] messageDigest = md.digest(input.getBytes());
            BigInteger no = new BigInteger(1, messageDigest);
            String hashtext = no.toString(16);
            while (hashtext.length() < 32) {
                 hashtext = "0" + hashtext;

            }
            return hashtext;
        } catch (NoSuchAlgorithmException e) {
                throw new RuntimeException(e);
        }
    }

    public static void main(String args[]) throws

NoSuchAlgorithmException {
            System.out.println("HashCode Generated by SHA-512 for: ");

            String sl = "Shlok Kamath";

            System.out.println("\n" + sl + " : " + encryptThisString(sl));
        }
}</pre>
```

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OUTPUT:

