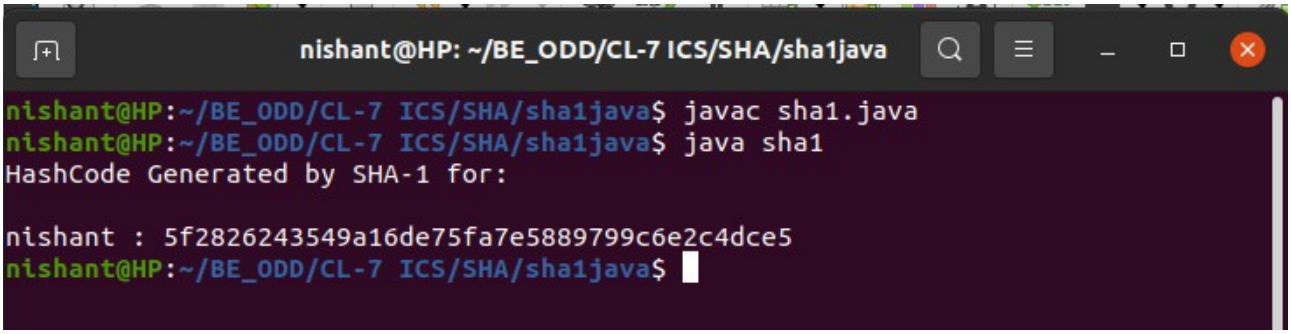
CODE:-

```
// Java program to calculate SHA-1 hash value

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

public class sha1 {
	public static String encryptThisString(String input)
	{
		try {
			// getInstance() method is called with algorithm SHA-1
			MessageDigest md = MessageDigest.getInstance("SHA-1");

			// digest() method is called
			// to calculate message digest of the input string
			// returned as array of byte
			byte[] messageDigest = md.digest(input.getBytes());

			// Convert byte array into signum representation
			BigInteger no = new BigInteger(1, messageDigest);

			// Convert message digest into hex value
			String hashtext = no.toString(16);

			// Add preceding 0s to make it 32 bit
			while (hashtext.length() < 32) {
				hashtext = "0" + hashtext;
			}

			// return the HashText
			return hashtext;
		}

		// For specifying wrong message digest algorithms
		catch (NoSuchAlgorithmException e) {
			throw new RuntimeException(e);
		}
	}

	// Driver code
	public static void main(String args[]) throws
                                                        NoSuchAlgorithmException
	{

		System.out.println("HashCode Generated by SHA-1 for: ");


		String s2 = "nishant";
		System.out.println("\n" + s2 + " : " + encryptThisString(s2));
	}
```

}

OUTPUT:-


nishant@HP: ~/BE_ODD/CL-7 ICS/SHA/sha1java
nishant@HP:~/BE_ODD/CL-7 ICS/SHA/sha1java$ javac sha1.java
nishant@HP:~/BE_ODD/CL-7 ICS/SHA/sha1java$ java sha1
HashCode Generated by SHA-1 for:
nishant : 5f2826243549a16de75fa7e5889799c6e2c4dce5
nishant@HP:~/BE_ODD/CL-7 ICS/SHA/sha1java$