import java.math.BigInteger;

import java.security.MessageDigest;

import java.security.NoSuchAlgorithmException;

import java.util.Scanner;

public class MD5Example {

// Hash function to get the MD5 hash

public static String getMd5Hash(String input) {

try {

// Static getInstance() method is called with hashing MD5

MessageDigest md = MessageDigest.getInstance("MD5");

// Calculating message digest of an input that returns an array of bytes

byte[] messageDigest = md.digest(input.getBytes());

// Converting byte array into signum representation

BigInteger no = new BigInteger(1, messageDigest);

// Converting message digest into hex value

String hashtext = no.toString(16);

// Adding leading zeros if necessary

while (hashtext.length() < 32) {

hashtext = "0" + hashtext;

}

return hashtext;

} catch (NoSuchAlgorithmException e) {

throw new RuntimeException(e);

}

}

// Driver code

public static void main(String args[]) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the text to calculate MD5 hash: ");

String userInput = scanner.nextLine();

scanner.close();

System.out.println("HashCode Generated for the string is: " + getMd5Hash(userInput));

}

}