

Assignment No 7

```
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
import java.util.Scanner;
public class MD5Hash {
    public static String getMD5(String input) {
        try {
            // Create an MD5 MessageDigest instance
            MessageDigest md = MessageDigest.getInstance("MD5");

            // Compute the hash
            byte[] messageDigest = md.digest(input.getBytes());

            // Convert byte array into signum representation
            StringBuilder hexString = new StringBuilder();
            for (byte b : messageDigest) {
                String hex = Integer.toHexString(0xff & b);
                if (hex.length() == 1) {
                    hexString.append('0');
                }
                hexString.append(hex);
            }

            return hexString.toString();
        } catch (NoSuchAlgorithmException e) {
            throw new RuntimeException(e);
        }
    }
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter text: ");
        String input = scanner.nextLine();
        scanner.close();

        String hash = getMD5(input);
        System.out.println("MD5 Hash: " + hash);
    }
}
```

Output-

Enter text: hello

MD5 Hash: 5d41402abc4b2a76b9719d911017c592

