Practical 6

Aim: Implement the concept of Hashing.

Code:

```
package PramodPrac6;

import java.security.MessageDigest;

import java.security.NoSuchAlgorithmException;

import java.io.*;

public class PramodPrac6 {

  public static void main(String[] args) {

    String inputString;

    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

    try {

      System.out.print("Enter any text: ");

      inputString = br.readLine();

      // Create MessageDigest instance for MD5

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

      // Get MD5 Hash

      byte[] hashBytes = md.digest(inputString.getBytes());

      // Convert byteArray to hexadecimal string

      StringBuilder hexStringBuilder = new StringBuilder();

      for (byte hashByte : hashBytes) {

         hexStringBuilder.append(String.format("%02x", hashByte));

      }

      // Print the MD5 hash

      System.out.println("MD5 hash: " + hexStringBuilder.toString());

    } catch (Exception e) {

      e.printStackTrace();

    }
```

```
    }

}
```

Output:

```
run:
Enter any text: Pramod248637
MD5 hash: fa5cc406da4989c572245a6a384ecd8f
BUILD SUCCESSFUL (total time: 10 seconds)
```