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Implementation of MD5 Algorithm in Java

Levels of difficulty: [Hard](#) / perform operation:

[Algorithm Implementation](#), [Networking](#)

Java Program to implement MD5(Message Digest-5) Algorithm.

Generate Hash of the given message using MD5 Algorithm. Here, we have given md5 method to generate hash of the message, just pass a string in md5 method and get result.

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java Program

```
import java.math.BigInteger;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;
public class JavaMD5Hash {
    public static void main(String[] args) {
        System.out.println("For null " + md5(""));
        System.out.println("For simple text " + md5("This is my text"));
        System.out.println("For simple numbers " + md5("12345"));
    }
    public static String md5(String input) {
        String md5 = null;
        if(null == input) return null;
        try {
            //Create MessageDigest object for MD5
            MessageDigest digest = MessageDigest.getInstance("MD5");
            //Update input string in message digest
            digest.update(input.getBytes(), 0, input.length());
            //Converts message digest value in base 16 (hex)
            md5 = new BigInteger(1, digest.digest()).toString(16);
        }
        catch (NoSuchAlgorithmException e) {
            e.printStackTrace();
        }
        return md5;
    }
}
```

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