```
import javax.crypto.Cipher;
import java.security.KeyPair;
import java.security.KeyPairGenerator;
import java.security.PrivateKey;
import java.security.PublicKey;
import java.util.Base64;
public class Main {
  public static void main(String[] args) throws Exception {
    KeyPair keyPair = generateKeyPair();
    PublicKey publicKey = keyPair.getPublic();
    PrivateKey privateKey = keyPair.getPrivate();
    String plainText = "Hello, World!";
    System.out.println("Plain Text : " + plainText);
    String encryptedText = encrypt(publicKey, plainText);
    System.out.println("Encrypted Text : " + encryptedText);
    String decryptedText = decrypt(privateKey, encryptedText);
    System.out.println("Decrypted Text : " + decryptedText);
  }
  public static KeyPair generateKeyPair() throws Exception {
    KeyPairGenerator generator = KeyPairGenerator.getInstance("RSA");
    generator.initialize(2048);
    return generator.generateKeyPair();
  }
  public static String encrypt(PublicKey key, String message) throws Exception {
    Cipher cipher = Cipher.getInstance("RSA");
    cipher.init(Cipher.ENCRYPT_MODE, key);
    return Base64.getEncoder().encodeToString(cipher.doFinal(message.getBytes("UTF-8")));
  }
  public static String decrypt(PrivateKey key, String encrypted) throws Exception {
    byte[] bytes = Base64.getDecoder().decode(encrypted);
    Cipher cipher = Cipher.getInstance("RSA");
    cipher.init(Cipher.DECRYPT MODE, key);
    return new String(cipher.doFinal(bytes), "UTF-8");
  }
}
```