import java.security.KeyPair;

import java.security.KeyPairGenerator;

import java.security.PrivateKey;

import java.security.PublicKey;

import javax.crypto.Cipher;

public class AsymmetricEncryption{

public static void main(String[] args)throws Exception{

String plainText="This is a secret message";

KeyPairGenerator keypairgenerator = KeyPairGenerator.getInstance("RSA");

keypairgenerator.initialize(2048);

KeyPair KEYPAIR = keypairgenerator.generateKeyPair();

PublicKey publickey = KEYPAIR.getPublic();

PrivateKey privatekey = KEYPAIR.getPrivate();

Cipher cipher =Cipher.getInstance("RSA");

cipher.init(Cipher.ENCRYPT\_MODE,publickey);

byte[] encryptedText=cipher.doFinal(plainText.getBytes());

System.out.println("Encrypted Text :" + new String(encryptedText));

cipher.init(Cipher.DECRYPT\_MODE,privatekey);

byte[] decryptedText=cipher.doFinal(encryptedText);

System.out.println("Decrypted Text :" + new String(decryptedText));

}

}