Experiment 3

**Code-**

import java.security.InvalidKeyException;

import java.security.NoSuchAlgorithmException;

import javax.crypto.BadPaddingException;

import javax.crypto.Cipher;

import javax.crypto.IllegalBlockSizeException;

import javax.crypto.KeyGenerator;

import javax.crypto.NoSuchPaddingException;

import javax.crypto.SecretKey;

public class DES

{

public static void main(String[] argv) {

try{

System.out.println("Message Encryption Using DES Algorithm\n-------");

KeyGenerator keygenerator = KeyGenerator.getInstance("DES");

SecretKey myDesKey = keygenerator.generateKey();

Cipher desCipher;

desCipher = Cipher.getInstance("DES/ECB/PKCS5Padding");

desCipher.init(Cipher.ENCRYPT\_MODE, myDesKey);

byte[] text = "Secret Information ".getBytes();

System.out.println("Message [Byte Format] : " + text);

System.out.println("Message : " + new String(text));

byte[] textEncrypted = desCipher.doFinal(text);

System.out.println("Encrypted Message: " + textEncrypted);

desCipher.init(Cipher.DECRYPT\_MODE, myDesKey);

byte[] textDecrypted = desCipher.doFinal(textEncrypted);

System.out.println("Decrypted Message: " + new

String(textDecrypted));

}catch(NoSuchAlgorithmException e){

e.printStackTrace();

}catch(NoSuchPaddingException e){

e.printStackTrace();

}catch(InvalidKeyException e){

e.printStackTrace();

}catch(IllegalBlockSizeException e){

e.printStackTrace();

}catch(BadPaddingException e){

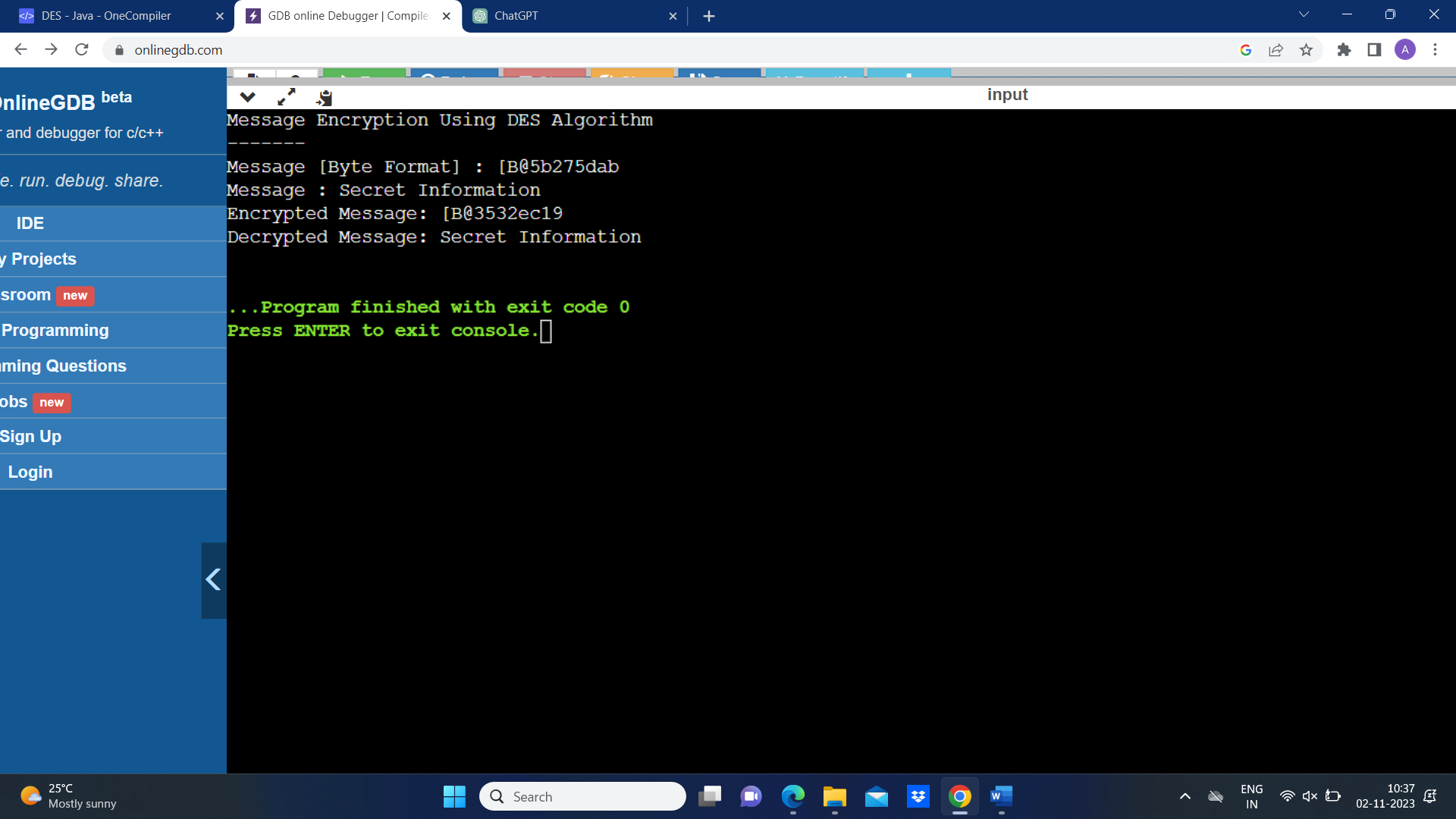
e.printStackTrace();

}

}

}

**Output-**

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