

Ns 6

: Implementation of DES

```
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[] args) {
        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 = "kiran_32042 ".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();  
}}}
```