

## MCC EXPERIMENT 10

```
import javax.crypto.Cipher;
import javax.crypto.spec.SecretKeySpec;
import java.util.Base64;

public class AESExample {

    public static void main(String[] args) {
        try {
            String originalText = "Hello, world!";
            String secretKey = "ThisIsASecretKey";

            String encryptedText = encrypt(originalText, secretKey);
            System.out.println("Encrypted text: " + encryptedText);

            String decryptedText = decrypt(encryptedText, secretKey);
            System.out.println("Decrypted text: " + decryptedText);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    public static String encrypt(String input, String key) throws Exception {
        Cipher cipher = Cipher.getInstance("AES/ECB/PKCS5Padding");
        SecretKeySpec secretKey = new SecretKeySpec(key.getBytes(), "AES");
        cipher.init(Cipher.ENCRYPT_MODE, secretKey);
        byte[] encryptedBytes = cipher.doFinal(input.getBytes());
        return Base64.getEncoder().encodeToString(encryptedBytes);
    }
}
```

```
public static String decrypt(String input, String key) throws Exception {  
    Cipher cipher = Cipher.getInstance("AES/ECB/PKCS5Padding");  
    SecretKeySpec secretKey = new SecretKeySpec(key.getBytes(), "AES");  
    cipher.init(Cipher.DECRYPT_MODE, secretKey);  
    byte[] decryptedBytes = cipher.doFinal(Base64.getDecoder().decode(input));  
    return new String(decryptedBytes);  
}  
}
```

Output:-

Encrypted text: kSLBfmXk26e5UpYyf7Qzdg==

Decrypted text: Hello, world!