

Exercise 1: RSA keygen

```
(kali@kali) [~/HW_1/Ex_1]
$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/kali/.ssh/id_rsa): key
Enter passphrase for 'key' (empty for no passphrase):
Enter same passphrase again:
Passphrases do not match. Try again.
Enter passphrase for 'key' (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in key
Your public key has been saved in key.pub
The key fingerprint is:
SHA256:rBpoVDFHXXoCgHDwFgUW0Ww7z+eP2P5TRWY+y1XQD kali@kali
The key's randomart image is:
[RSA 3072]
+-----+
|  o . . . . 0+o+o |
|  + . . . . +. B |
|  . . . . . o . Eo |
|  . . . . . + . o . |
|  . . . . . S . . . |
|  . . . . . + . . . |
|  . . . . . + . . . |
|  o . . . . + . . . |
|  . . . . . o . . . |
|  . . . . . + . . . |
+-----+
[SHA256]

(kali@kali) [~/HW_1/Ex_1]
$ cat key
-----BEGIN OPENSSH PRIVATE KEY-----
b3B1bnN2XzRkZXRkZjEAAAACnFlcz11Ni1jHIAAAAGYmNyeXB0AAAAAGAAAABCDv7TAe
wD2wmlwS2JlgljIAAAAGAAAAAGAAAAAB3NzaC1yc2EAAAADAQABAAQgQ0aHRJdScSech
/CEJ1NoAMX/NqJd2NMWk4YsV6YyJ2t1K1uJ1JhCgC2cG02m7q6FexMK0K1vtyJm0dCKI
Rm11JbWm3DpL1uM5Jf1HmXk1zGdU1D5vM1w6p1w2p1w3J2p1w4p1w5p1w6p1w7p1w8p1w9p1w10p1w11p1w12p1w13p1w14p1w15p1w16p1w17p1w18p1w19p1w20p1w21p1w22p1w23p1w24p1w25p1w26p1w27p1w28p1w29p1w30p1w31p1w32p1w33p1w34p1w35p1w36p1w37p1w38p1w39p1w40p1w41p1w42p1w43p1w44p1w45p1w46p1w47p1w48p1w49p1w50p1w51p1w52p1w53p1w54p1w55p1w56p1w57p1w58p1w59p1w60p1w61p1w62p1w63p1w64p1w65p1w66p1w67p1w68p1w69p1w70p1w71p1w72p1w73p1w74p1w75p1w76p1w77p1w78p1w79p1w80p1w81p1w82p1w83p1w84p1w85p1w86p1w87p1w88p1w89p1w90p1w91p1w92p1w93p1w94p1w95p1w96p1w97p1w98p1w99p1w100p1w101p1w102p1w103p1w104p1w105p1w106p1w107p1w108p1w109p1w110p1w111p1w112p1w113p1w114p1w115p1w116p1w117p1w118p1w119p1w120p1w121p1w122p1w123p1w124p1w125p1w126p1w127p1w128p1w129p1w130p1w131p1w132p1w133p1w134p1w135p1w136p1w137p1w138p1w139p1w140p1w141p1w142p1w143p1w144p1w145p1w146p1w147p1w148p1w149p1w150p1w151p1w152p1w153p1w154p1w155p1w156p1w157p1w158p1w159p1w160p1w161p1w162p1w163p1w164p1w165p1w166p1w167p1w168p1w169p1w170p1w171p1w172p1w173p1w174p1w175p1w176p1w177p1w178p1w179p1w180p1w181p1w182p1w183p1w184p1w185p1w186p1w187p1w188p1w189p1w190p1w191p1w192p1w193p1w194p1w195p1w196p1w197p1w198p1w199p1w200p1w201p1w202p1w203p1w204p1w205p1w206p1w207p1w208p1w209p1w210p1w211p1w212p1w213p1w214p1w215p1w216p1w217p1w218p1w219p1w220p1w221p1w222p1w223p1w224p1w225p1w226p1w227p1w228p1w229p1w230p1w231p1w232p1w233p1w234p1w235p1w236p1w237p1w238p1w239p1w240p1w241p1w242p1w243p1w244p1w245p1w246p1w247p1w248p1w249p1w250p1w251p1w252p1w253p1w254p1w255p1w256p1w257p1w258p1w259p1w260p1w261p1w262p1w263p1w264p1w265p1w266p1w267p1w268p1w269p1w270p1w271p1w272p1w273p1w274p1w275p1w276p1w277p1w278p1w279p1w280p1w281p1w282p1w283p1w284p1w285p1w286p1w287p1w288p1w289p1w290p1w291p1w292p1w293p1w294p1w295p1w296p1w297p1w298p1w299p1w300p1w301p1w302p1w303p1w304p1w305p1w306p1w307p1w308p1w309p1w310p1w311p1w312p1w313p1w314p1w315p1w316p1w317p1w318p1w319p1w320p1w321p1w322p1w323p1w324p1w325p1w326p1w327p1w328p1w329p1w330p1w331p1w332p1w333p1w334p1w335p1w336p1w337p1w338p1w339p1w340p1w341p1w342p1w343p1w344p1w345p1w346p1w347p1w348p1w349p1w350p1w351p1w352p1w353p1w354p1w355p1w356p1w357p1w358p1w359p1w360p1w361p1w362p1w363p1w364p1w365p1w366p1w367p1w368p1w369p1w370p1w371p1w372p1w373p1w374p1w375p1w376p1w377p1w378p1w379p1w380p1w381p1w382p1w383p1w384p1w385p1w386p1w387p1w388p1w389p1w390p1w391p1w392p1w393p1w394p1w395p1w396p1w397p1w398p1w399p1w400p1w401p1w402p1w403p1w404p1w405p1w406p1w407p1w408p1w409p1w410p1w411p1w412p1w413p1w414p1w415p1w416p1w417p1w418p1w419p1w420p1w421p1w422p1w423p1w424p1w425p1w426p1w427p1w428p1w429p1w430p1w431p1w432p1w433p1w434p1w435p1w436p1w437p1w438p1w439p1w440p1w441p1w442p1w443p1w444p1w445p1w446p1w447p1w448p1w449p1w450p1w451p1w452p1w453p1w454p1w455p1w456p1w457p1w458p1w459p1w460p1w461p1w462p1w463p1w464p1w465p1w466p1w467p1w468p1w469p1w470p1w471p1w472p1w473p1w474p1w475p1w476p1w477p1w478p1w479p1w480p1w481p1w482p1w483p1w484p1w485p1w486p1w487p1w488p1w489p1w490p1w491p1w492p1w493p1w494p1w495p1w496p1w497p1w498p1w499p1w500p1w501p1w502p1w503p1w504p1w505p1w506p1w507p1w508p1w509p1w510p1w511p1w512p1w513p1w514p1w515p1w516p1w517p1w518p1w519p1w520p1w521p1w522p1w523p1w524p1w525p1w526p1w527p1w528p1w529p1w530p1w531p1w532p1w533p1w534p1w535p1w536p1w537p1w538p1w539p1w540p1w541p1w542p1w543p1w544p1w545p1w546p1w547p1w548p1w549p1w550p1w551p1w552p1w553p1w554p1w555p1w556p1w557p1w558p1w559p1w560p1w561p1w562p1w563p1w564p1w565p1w566p1w567p1w568p1w569p1w570p1w571p1w572p1w573p1w574p1w575p1w576p1w577p1w578p1w579p1w580p1w581p1w582p1w583p1w584p1w585p1w586p1w587p1w588p1w589p1w590p1w591p1w592p1w593p1w594p1w595p1w596p1w597p1w598p1w599p1w600p1w601p1w602p1w603p1w604p1w605p1w606p1w607p1w608p1w609p1w610p1w611p1w612p1w613p1w614p1w615p1w616p1w617p1w618p1w619p1w620p1w621p1w622p1w623p1w624p1w625p1w626p1w627p1w628p1w629p1w630p1w631p1w632p1w633p1w634p1w635p1w636p1w637p1w638p1w639p1w640p1w641p1w642p1w643p1w644p1w645p1w646p1w647p1w648p1w649p1w650p1w651p1w652p1w653p1w654p1w655p1w656p1w657p1w658p1w659p1w660p1w661p1w662p1w663p1w664p1w665p1w666p1w667p1w668p1w669p1w670p1w671p1w672p1w673p1w674p1w675p1w676p1w677p1w678p1w679p1w680p1w681p1w682p1w683p1w684p1w685p1w686p1w687p1w688p1w689p1w690p1w691p1w692p1w693p1w694p1w695p1w696p1w697p1w698p1w699p1w700p1w701p1w702p1w703p1w704p1w705p1w706p1w707p1w708p1w709p1w710p1w711p1w712p1w713p1w714p1w715p1w716p1w717p1w718p1w719p1w720p1w721p1w722p1w723p1w724p1w725p1w726p1w727p1w728p1w729p1w730p1w731p1w732p1w733p1w734p1w735p1w736p1w737p1w738p1w739p1w740p1w741p1w742p1w743p1w744p1w745p1w746p1w747p1w748p1w749p1w750p1w751p1w752p1w753p1w754p1w755p1w756p1w757p1w758p1w759p1w760p1w761p1w762p1w763p1w764p1w765p1w766p1w767p1w768p1w769p1w770p1w771p1w772p1w773p1w774p1w775p1w776p1w777p1w778p1w779p1w780p1w781p1w782p1w783p1w784p1w785p1w786p1w787p1w788p1w789p1w790p1w791p1w792p1w793p1w794p1w795p1w796p1w797p1w798p1w799p1w800p1w801p1w802p1w803p1w804p1w805p1w806p1w807p1w808p1w809p1w810p1w811p1w812p1w813p1w814p1w815p1w816p1w817p1w818p1w819p1w820p1w821p1w822p1w823p1w824p1w825p1w826p1w827p1w828p1w829p1w830p1w831p1w832p1w833p1w834p1w835p1w836p1w837p1w838p1w839p1w840p1w841p1w842p1w843p1w844p1w845p1w846p1w847p1w848p1w849p1w850p1w851p1w852p1w853p1w854p1w855p1w856p1w857p1w858p1w859p1w860p1w861p1w862p1w863p1w864p1w865p1w866p1w867p1w868p1w869p1w870p1w871p1w872p1w873p1w874p1w875p1w876p1w877p1w878p1w879p1w880p1w881p1w882p1w883p1w884p1w885p1w886p1w887p1w888p1w889p1w890p1w891p1w892p1w893p1w894p1w895p1w896p1w897p1w898p1w899p1w900p1w901p1w902p1w903p1w904p1w905p1w906p1w907p1w908p1w909p1w910p1w911p1w912p1w913p1w914p1w915p1w916p1w917p1w918p1w919p1w920p1w921p1w922p1w923p1w924p1w925p1w926p1w927p1w928p1w929p1w930p1w931p1w932p1w933p1w934p1w935p1w936p1w937p1w938p1w939p1w940p1w941p1w942p1w943p1w944p1w945p1w946p1w947p1w948p1w949p1w950p1w951p1w952p1w953p1w954p1w955p1w956p1w957p1w958p1w959p1w960p1w961p1w962p1w963p1w964p1w965p1w966p1w967p1w968p1w969p1w970p1w971p1w972p1w973p1w974p1w975p1w976p1w977p1w978p1w979p1w980p1w981p1w982p1w983p1w984p1w985p1w986p1w987p1w988p1w989p1w990p1w991p1w992p1w993p1w994p1w995p1w996p1w997p1w998p1w999p1w1000p1w1001p1w1002p1w1003p1w1004p1w1005p1w1006p1w1007p1w1008p1w1009p1w1010p1w1011p1w1012p1w1013p1w1014p1w1015p1w1016p1w1017p1w1018p1w1019p1w1020p1w1021p1w1022p1w1023p1w1024p1w1025p1w1026p1w1027p1w1028p1w1029p1w1030p1w1031p1w1032p1w1033p1w1034p1w1035p1w1036p1w1037p1w1038p1w1039p1w1040p1w1041p1w1042p1w1043p1w1044p1w1045p1w1046p1w1047p1w1048p1w1049p1w1050p1w1051p1w1052p1w1053p1w1054p1w1055p1w1056p1w1057p1w1058p1w1059p1w1060p1w1061p1w1062p1w1063p1w1064p1w1065p1w1066p1w1067p1w1068p1w1069p1w1070p1w1071p1w1072p1w1073p1w1074p1w1075p1w1076p1w1077p1w1078p1w1079p1w1080p1w1081p1w1082p1w1083p1w1084p1w1085p1w1086p1w1087p1w1088p1w1089p1w1090p1w1091p1w1092p1w1093p1w1094p1w1095p1w1096p1w1097p1w1098p1w1099p1w1100p1w1101p1w1102p1w1103p1w1104p1w1105p1w1106p1w1107p1w1108p1w1109p1w1110p1w1111p1w1112p1w1113p1w1114p1w1115p1w1116p1w1117p1w1118p1w1119p1w1120p1w1121p1w1122p1w1123p1w1124p1w1125p1w1126p1w1127p1w1128p1w1129p1w1130p1w1131p1w1132p1w1133p1w1134p1w1135p1w1136p1w1137p1w1138p1w1139p1w1140p1w1141p1w1142p1w1143p1w1144p1w1145p1w1146p1w1147p1w1148p1w1149p1w1150p1w1151p1w1152p1w1153p1w1154p1w1155p1w1156p1w1157p1w1158p1w1159p1w1160p1w1161p1w1162p1w1163p1w1164p1w1165p1w1166p1w1167p1w1168p1w1169p1w1170p1w1171p1w1172p1w1173p1w1174p1w1175p1w1176p1w1177p1w1178p1w1179p1w1180p1w1181p1w1182p1w1183p1w1184p1w1185p1w1186p1w1187p1w1188p1w1189p1w1190p1w1191p1w1192p1w1193p1w1194p1w1195p1w1196p1w1197p1w1198p1w1199p1w1200p1w1201p1w1202p1w1203p1w1204p1w1205p1w1206p1w1207p1w1208p1w1209p1w1210p1w1211p1w1212p1w1213p1w1214p1w1215p1w1216p1w1217p1w1218p1w1219p1w1220p1w1221p1w1222p1w1223p1w1224p1w1225p1w1226p1w1227p1w1228p1w1229p1w1230p1w1231p1w1232p1w1233p1w1234p1w1235p1w1236p1w1237p1w1238p1w1239p1w1240p1w1241p1w1242p1w1243p1w1244p1w1245p1w1246p1w1247p1w1248p1w1249p1w1250p1w1251p1w1252p1w1253p1w1254p1w1255p1w1256p1w1257p1w1258p1w1259p1w1260p1w1261p1w1262p1w1263p1w1264p1w1265p1w1266p1w1267p1w1268p1w1269p1w1270p1w1271p1w1272p1w1273p1w1274p1w1275p1w1276p1w1277p1w1278p1w1279p1w1280p1w1281p1w1282p1w1283p1w1284p1w1285p1w1286p1w1287p1w1288p1w1289p1w1290p1w1291p1w1292p1w1293p1w1294p1w1295p1w1296p1w1297p1w1298p1w1299p1w1300p1w1301p1w1302p1w1303p1w1304p1w1305p1w1306p1w1307p1w1308p1w1309p1w1310p1w1311p1w1312p1w1313p1w1314p1w1315p1w1316p1w1317p1w1318p1w1319p1w1320p1w1321p1w1322p1w1323p1w1324p1w1325p1w1326p1w1327p1w1328p1w1329p1w1330p1w1331p1w1332p1w1333p1w1334p1w1335p1w1336p1w1337p1w1338p1w1339p1w1340p1w1341p1w1342p1w1343p1w1344p1w1345p1w1346p1w1347p1w1348p1w1349p1w1350p1w1351p1w1352p1w1353p1w1354p1w1355p1w1356p1w1357p1w1358p1w1359p1w1360p1w1361p1w1362p1w1363p1w1364p1w1365p1w1366p1w1367p1w1368p1w1369p1w1370p1w1371p1w1372p1w1373p1w1374p1w1375p1w1376p1w1377p1w1378p1w1379p1w1380p1w1381p1w1382p1w1383p1w1384p1w1385p1w1386p1w1387p1w1388p1w1389p1w1390p1w1391p1w1392p1w1393p1w1394p1w1395p1w1396p1w1397p1w1398p1w1399p1w1400p1w1401p1w1402p1w1403p1w1404p1w1405p1w1406p1w1407p1w1408p1w1409p1w1410p1w1411p1w1412p1w1413p1w1414p1w1415p1w1416p1w1417p1w1418p1w1419p1w1420p1w1421p1w1422p1w1423p1w1424p1w1425p1w1426p1w1427p1w1428p1w1429p1w1430p1w1431p1w1432p1w1433p1w1434p1w1435p1w1436p1w1437p1w1438p1w1439p1w1440p1w1441p1w1442p1w1443p1w1444p1w1445p1w1446p1w1447p1w1448p1w1449p1w1450p1w1451p1w1452p1w1453p1w1454p1w1455p1w1456p1w1457p1w1458p1w1459p1w1460p1w1461p1w1462p1w1463p1w1464p1w1465p1w1466p1w1467p1w1468p1w1469p1w1470p1w1471p1w1472p1w1473p1w1474p1w1475p1w1476p1w1477p1w1478p1w1479p1w1480p1w1481p1w1482p1w1483p1w1484p1w1485p1w1486p1w1487p1w1488p1w1489p1w1490p1w1491p1w1492p1w1493p1w1494p1w1495p1w1496p1w1497p1w1498p1w1499p1w1500p1w1501p1w1502p1w1503p1w1504p1w1505p1w1506p1w1507p1w1508p1w1509p1w1510p1w1511p1w1512p1w1513p1w1514p1w1515p1w1516p1w1517p1w1518p1w1519p1w1520p1w1521p1w1522p1w1523p1w1524p1w1525p1w1526p1w1527p1w1528p1w1529p1w1530p1w1531p1w1532p1w1533p1w1534p1w1535p1w1536p1w1537p1w1538p1w1539p1w1540p1w1541p1w1542p1w1543p1w1544p1w1545p1w1546p1w1547p1w1548p1w1549p1w1550p1w1551p1w1552p1w1553p1w1554p1w1555p1w1556p1w1557p1w1558p1w1559p1w1560p1w1561p1w1562p1w1563p1w1564p1w1565p1w1566p1w1567p1w1568p1w1569p1w1570p1w1571p1w1572p1w1573p1w1574p1w1575p1w1576p1w1577p1w1578p1w1579p1w1580p1w1581p1w1582p1w1583p1w1584p1w1585p1w1586p1w1587p1w1588p1w1589p1w1590p1w1591p1w1592p1w1593p1w1594p1w1595p1w1596p1w1597p1w1598p1w1599p1w1600p1w1601p1w1602p1w1603p1w1604p1w1605p1w1606p1w1607p1w1608p1w1609p1w1610p1w1611p1w1612p1w1613p1w1614p1w1615p1w1616p1w1617p1w1618p1w1619p1w1620p1w1621p1w1622p1w1623p1w1624p1w1625p1w1626p1w1627p1w1628p1w1629p1w1630p1w1631p1w1632p1w1633p1w1634p1w1635p1w1636p1w1637p1w1638p1w1639p1w1640p1w1641p1w1642p1w1643p1w1644p1w1645p1w1646p1w1647p1w1648p1w1649p1w1650p1w1651p1w1652p1w1653p1w1654p1w1655p1w1656p1w1657p1w1658p1w1659p1w1660p1w1661p1w1662p1w1663p1w1664p1w1665p1w1666p1w1667p1w1668p1w1669p1w1670p1w1671p1w1672p1w1673p1w1674p1w1675p1w1676p1w1677p1w1678p1w1679p1w1680p1w1681p1w1682p1w1683p1w1684p1w1685p1w1686p1w1687p1w1688p1w1689p1w1690p1w1691p1w1692p1w1693p1w1694p1w1695p1w1696p1w1697p1w1698p1w1699p1w1700p1w1701p1w1702p1w1703p1w1704p1w1705p1w1706p1w1707p1w1708p1w1709p1w1710p1w1711p1w1712p1w1713p1w1714p1w1715p1w1716p1w1717p1w1718p1w1719p1w1720p1w1721p1w1722p1w1723p1w1724p1w1725p1w1726p1w1727p1w1728p1w1729p1w1730p1w1731p1w1732p1w1733p1w1734p1w1735p1w1736p1w1737p1w1738p1w1739p1w1740p1w1741p1w1742p1w1743p1w1744p1w1745p1w1746p1w1747p1w1748p1w1749p1w1750p1w1751p1w1752p1w1753p1w1754p1w1755p1w1756p1w1757p1w1758p1w1759p1w1760p1w1761p1w1762p1w1763p1w1764p1w1765p1w1766p1w1767p1w1768p1w1769p1w1770p1w1771p1w1772p1w1773p1w1774p1w1775p1w1776p1w1777p1w1778p1w1779p1w1780p1w1781p1w1782p1w1783p1w1784p1w1785p1w1786p1w1787p1w1788p1w1789p1w1790p1w1791p1w1792p1w1793p1w1794p1w1795p1w1796p1w1797p1w1798p1w1799p1w1800p1w1801p1w1802p1w1803p1w1804p1w1805p1w1806p1w1807p1w1808p1w1809p1w1810p1w1811p1w1812p1w1813p1w1814p1w1815p1w1816p1w1817p1w1818p1w1819p1w1820p1w1821p1w1822p1w1823p1w1824p1w1825p1w1826p1w1827p1w1828p1w1829p1w1830p1w1831p1w1832p1w1833p1w1834p1w1835p1w1836p1w1837p1w1838p1w1839p1w1840
```

Exercise 2: ECB

```
(kali㉿kali)-[~/HW_1/Ex_2]
$ openssl rand -out 16_key.bin 16

(kali㉿kali)-[~/HW_1/Ex_2]
$ openssl enc -aes-128-ecb -in hashing.txt -out hashing_enc_aes_1.dat -pass file:16_key.bin
*** WARNING : deprecated key derivation used.
Using -iter or -pbkdf2 would be better.

(kali㉿kali)-[~/HW_1/Ex_2]
$ openssl enc -d -aes-128-ecb -in hashing_enc_aes_1.dat -out hashing_decrypted_1.txt -pass file:16_key.bin
*** WARNING : deprecated key derivation used.
Using -iter or -pbkdf2 would be better.

(kali㉿kali)-[~/HW_1/Ex_2]
$ cat hashing.txt
IBM
M
M

(kali㉿kali)-[~/HW_1/Ex_2]
$ cat hashing_decrypted_1.txt
IBM
M
M

(kali㉿kali)-[~/HW_1/Ex_2]
$
```

Exercise 2: CFB with iv vector

```
(kali@kali)-[~/HW_1/Ex_2]
$ openssl rand -hex 16 > iv.hex

(kali@kali)-[~/HW_1/Ex_2]
$ openssl enc -aes-128-cfb -in hashing.txt -out hashing_enc_cfb.dat -pass file:16_key.bin -iv file:iv.hex
*** WARNING : deprecated key derivation used.
Using -iter or -pbkdf2 would be better.
hex string is too short, padding with zero bytes to length
non-hex digit
invalid hex iv value

(kali@kali)-[~/HW_1/Ex_2]
$

(kali@kali)-[~/HW_1/Ex_2]
$ openssl enc -aes-128-cfb -in hashing.txt -out hashing_enc_cfb.dat -pass file:16_key.bin -iv $(cat iv.hex)
*** WARNING : deprecated key derivation used.
Using -iter or -pbkdf2 would be better.

(kali@kali)-[~/HW_1/Ex_2]
$ openssl enc -d -aes-128-cfb -in hashing_enc_cfb.dat -out hashing_decrypted_cfb.txt -pass file:16_key.bin -iv $(cat iv.hex)
*** WARNING : deprecated key derivation used.
Using -iter or -pbkdf2 would be better.

(kali@kali)-[~/HW_1/Ex_2]
$ cat hashing_decrypted_cfb.txt
```

IBM
M
M

Exercise optional: online caesar cipher

VIEW	ENCODE DECODE	VIEW
Plaintext ▾ <pre>rshqvvo hqf -dhv-256-fef -g -vdow -lq frqihvvlrq.hqf -rxw frqihvvlrq.ps4 -n Sxw_SZG_KHUH</pre>	Caesar cipher ▾ SHIFT - 23 a→X + ALPHABET abcdefghijklmnopqrstuvwxyz CASE STRATEGY FOREIGN CHARS Maintain case ▾ Include Ignore → Encoded 88 chars	Ciphertext ▾ <pre>openssl enc -aes-256-cbc -d -salt -in confession.enc -out confession.mp4 -k Put_PWD_HERE</pre>

Exercise optional: md5 decode

```
File Actions Edit View Help
(kali㉿kali)-[~/HW_1/Ex_3]
$ echo -n Civic | md5sum
b2b587eebaec9613f7944acb3df044ce -

(kali㉿kali)-[~/HW_1/Ex_3]
$ echo -n civic | md5sum
2f49f4708537033e725213452617f2e4 -

(kali㉿kali)-[~/HW_1/Ex_3]
$ civiC
civiC: command not found

(kali㉿kali)-[~/HW_1/Ex_3]
$ echo -n civiC | md5sum
e91d0212f0e07a9015f4e14f35efb84f -

(kali㉿kali)-[~/HW_1/Ex_3]
$ echo -n Sticks | md5sum
e68ee2bd74b0ffd80c0698b6759e3604 -

(kali㉿kali)-[~/HW_1/Ex_3]
$ echo -n Skcits | md5sum
0e4f2ce643c9ef69d4f98b4bd2ee427e -

(kali㉿kali)-[~/HW_1/Ex_3]
$ echo -n skcits | md5sum
3e99349e98f323fb40413802d3b18888 -

(kali㉿kali)-[~/HW_1/Ex_3]
$ echo -n Canon | md5sum
767ae4575f235465c0318145d85cd947 -
```

Exercise optional

```
(kali@kali)-[~/HW_1/Ex_3]  
$ openssl enc -aes-256-cbc -d -salt -in confession.enc -out confession.mp4 -k Canon  
*** WARNING : deprecated key derivation used.  
Using -iter or -pbkdf2 would be better.
```

Decrypted video

