

1.

```
*****
***** WELCOME *****
*****

Please enter 1 for encryption services and 2 for decryption services
1
Please enter the string to be encrypted and the integer value of the key
abcde 3
ENCRYPTING . . .

| Encrypted message: defgh |

*****
***** Thank you for using this service. *****
*****
~/Desktop/VSC_4174 $
```

```
*****
***** WELCOME *****
*****

Please enter 1 for encryption services or 2 for decryption services
2
Please enter the string to be decrypted
abc abc
Do you know the key? yes or no
yes
Please enter the integer value of the key
3
DECRYPTING . . .

| Decrypted message: xyz xyz |

*****
***** Thank you for using this service. *****
*****
~/Desktop/VSC_4174 $
```

2.

```
~/Desktop/VSC_4174 $ cd "/Users/serenadrouillard/Desktop/VSC_4174/" && javac Q1.java && java Q1

*****
***** WELCOME *****
*****

Please enter 1 for encryption services or 2 for decryption services
2
Please enter the string to be decrypted
TRVJRI TZGYVIJ RIV HLZKV VRJP KF TIRTB
Do you know the key? yes or no
no
Please enter true or t for a correct decryption and false or f for an incorrect decryption after each decryption presented
DECRYPTING . . .

| Decrypted message: squiqh syfxuhi qhu gkyju uqio je shqsa |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: rpthpg rxewtgh pgt fjxit tphn id rgprz |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: qosgof qwdvsfg ofs eiwhs sogm hc qfoqy |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: pnrrne pvcuref ner dhvgr rnfl gb penpx |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: omqemd oubtgde mdq cgufq qmek fa odnow |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: nlpdlc ntaspcd lcp bftep pldj ez nclnv |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: mkockb mszrobk kbo aesdo okci dy mbkmu |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: ljbja lryqab jan zdrcn njbh cx lajlt |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: kimaiz kqxpma izm ycqbm miag bw kzijs |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: jhlzhy jpwolyz hyl xbpal lhzf av jyhjr |

true/t or false/f?
f
DECRYPTING . . .

| Decrypted message: igkygx iovnkxy gxk waozk kgye zu ixgiq |
```

```

true/t or false/f?
f
DECRYPTING . . .
| Decrypted message: hfjxfw hnumjwx fwj vznyj jfxd yt hwfhp |

true/t or false/f?
f
DECRYPTING . . .
| Decrypted message: geiwev gmtliwv evi uymxi iewc xs gvego |

true/t or false/f?
f
DECRYPTING . . .
| Decrypted message: fdhydu flskhuv duh txlwh hdvb wr fudfn |

true/t or false/f?
f
DECRYPTING . . .
| Decrypted message: ecguct ekrgtu ctg swkvg gcua vq etcem |

true/t or false/f?
f
DECRYPTING . . .
| Decrypted message: dbftbs djqfst bsf rvjuf fbtz up dsbdl |

true/t or false/f?
f
DECRYPTING . . .
| Decrypted message: caesar ciphers are quite easy to crack |

true/t or false/f?
t
*****
***** Thank you for using this service. *****
*****
~/Desktop/VSC_4174 $

```

3.

```

~/Desktop/VSC_4174 $ cd "/Users/serenadrouillard/Desktop/VSC_4174/" &&
Enter a string to encrypt:
cryptography
Enter a keyword to use for the encryption:
secret
Encrypted string: uvagxhyvcglr
~/Desktop/VSC_4174 $

```

4. The key could be just simply “a”, because in each row there is only one instance of each letter, and the letters for the plaintext string determine the rows in the table to find the letters. So it could only be the first column that would produce the same letter as the letter in the plaintext string.

5.

```
~/Desktop/VSC_4174 $ cd "/Users/serenadrouillard/Desktop/VSC_4174/" && javac
Please enter the String to encrypt, with % instead of spaces:
WHY%IS%IT%50%WINDY?
How many columns in the cipher matrix?
6
Send over the encrypted message, lets figure this key shit out.
YTI%AN%ISD%SOY%HIW%W%?
[KEY: 2 3 4 5 1 0 ]
~/Desktop/VSC_4174 $ █
```

key= 2,3,4,5,1,0

6.

```
~/Desktop/VSC_4174 $ cd "/Users/serenadrouillard/Desktop/VSC_4174/" && javac
Hey, enter 1 for encrypting services or 2 for decrypting services.
2
~~~~~DeCrYpToNaToRrRrRr~~~~~
Ok, give me the crazy looking cipher text, with % instead of spaces.
R%M%I%ED%IF%DTEI%!%RBNE%AOAGL%
Ok, now the key. How many numbers are in it? Just make this easy for me.
5
Ok cool, lets hear it then.
3 4 1 5 2
DARE%TO%DREAM%BIG%IN%LIFE!%
K BYEEEE
~/Desktop/VSC_4174 $ █
```

Message: Dare to dream big in life!

7.

```
~/Desktop/VSC_4174 $ cd "/Users/serenadrouillard/Desktop/VSC_4174/" && javac
Hey, we're gunna make a key matrix here, so what's the key phrase?
NETWORK SECURITY
Ok, now what's the message you want to encrypt?
ALL GENERALIZATIONS ARE FALSE INCLUDING THIS ONE
bh mh te nk bh dp hs dn tr is ng bh kt fr bx dm fr he fa ut et
OK BYEE
~/Desktop/VSC_4174 $ █
```

encrypted: bh mh te nk bh dp hs dn tr is ng bh kt fr bx dm fr he fa ut et

8.	netwo	secur
	rkabc	ityab
	dfghi	dfghk
	lmpqs	lmnop
	uvxyz	qvwxyz

AL LG EN ER AL IZ AT IO NS AR EF AL SE IN CL UD IN GT HI SO NE

Encrypted: RN PD TM TS RP SR BY HP NS CC KM RN MR GP RP NL GP FY DA LP EC