CNS LAB

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Assignment 2

Aim - Given a Cipher text , encrypted caesar using , Using Crypt analysis find the plain text

Caesar Cipher

It is a substitution cipher, i.e., each letter of a given text is replaced by a letter with a fixed number of positions down the alphabet

We will decrypt using all the possible key , and find the most relative plain text

Code:

```
                    import enchant
d = enchant.Dict("en_US")
#encrypted message
message = 'RKPRYYRAG'
LETTERS = 'ABCDEFGHIJKLMNOPQRSTUVWXYZ'
actualText=''
actualKey=0
no_of_words=len(message.split())
words=[]
for key in range(len(LETTERS)):
  translated = ''
  word=''
  for symbol in message:
    if symbol in LETTERS:
      num = LETTERS.find(symbol)
      num = num - key
      if num < 0:
        num = num + len(LETTERS)
      translated = translated + LETTERS[num]
      word=word+LETTERS[num]
    else:
```

```
        if d.check(word):
            words.append(word)
        else:
            words.clear()
        word=''
    if d.check(word):
        words.append(word)
    if len(words)==no_of_words:
        actualText=translated
        actualKey=key
        words.clear()
    print('Plain text with %s: %s' % (key, translated))
print('Actual plain text is %s with key:%s' % (actualKey,actualText)
```

TestCases: