Algorithm For Modified OTP

Encryption

Step 1. Dictionary-1 ={‘a’:0,’b’=1…….’_’=36}
Step 2. Dictionary-2 ={0:'a',…….’36’=_}
Step 3. Function Encrypt(Password):
Step 4. Len=length(password)
Ans=' ' empty string
Step 5. List declaration Pt [Len] and key[Len]
and ct[Len]
Step 6. for I in password :
Step 7. Pt[I]=(Dictionary[I])
Step 8. for I in range (0,Len-1):
Step 9. key[I]=pt[I]+pt[I+1]
Step 10. if key[i] >37:
Step 11. key[I]-=37
Step 12. for I in range (0,Len):
Step 13. ct[I]=pt[I]+key[I]
Step 14. if ct[I] >37:
Step 15. ct[I]-=37
Step 16. for I in ct:
Step 17. Ans+=dictionary2[i]
Step 18. print(Ans)

Decryption

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Step 1. Dictionary-1 ={‘a’:0,’b’=1…….’_’=36}
Step 2 .Dictionary-2 ={0:'a',…….’36’=_    }
Step 3. Function Decryption (ct, key):
Step 4.        Len= length(CT)
Step 5.         Ans=' '
Step 6..       CT=ct.split()
Step 7.        Key=key.split()
Step 8.        For I in range(Len):
Step 9.              CT(I)=dict-1[ct(I)]
Step 10.       For I in range(Len):
Step 11.             Key(I)=dict-1[key(I)]
Step 12        For I in range(Len):
Step 13.             Key(I)=ct(I)-key(I)
Step 14.             If key(I) <0:
Step 15.                   Then key(I)+=37
Step 16.       For I in key:
Step 17.              Ans+=dictionary2[i]
Step 18. print(Ans)
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