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[1.a]
strin = input("Enter a string input: ")
print("First and last 2 characters: ", end="")
print(strin[:2] + strin[-2:])
     Enter a string input: Hello world
     First and last 2 characters: Held
[1.b]
print("Repetition operator if size>=2: ", end='')
if len(strin)<2:
     print("''")
else:
     print(strin*2)
     Repetition operator if size>=2: Hello worldHello world
[2.a]
strin = input("Enter a string input: ")
i0 = strin[0]
print(i0+strin.replace(i0, "$")[1:])
     Enter a string input: Rahul Ram Rathish
     Rahul $am $athish
[2.b]
strin = input("Enter a string to remove the nth index char: ")
ind = int(input("Enter the index of the character: "))
print(strin[:ind]+strin[ind+1:])
     Enter a string to remove the nth index char: Hello World
     Enter the index of the character: 2
     Helo World
[2.c]
strin = input("Enter a string to exchange first and last character: ")
print(strin[-1]+strin[1:-1]+strin[0])
     Enter a string to exchange first and last character: Hello World
     dello WorlH
[2.d]
strin = input("Enter a sentence to count the words: ")
words = [i for i in strin.split()]
word_count = {i:words.count(i) for i in set(words)}
for i in sorted(word_count, key=lambda k: word_count[k], reverse=True):
     print("{:<10} : {:>4}".format(i, word_count[i]))
     Enter a sentence to count the words: Hello you me Hello to me you there Hello
     Hello
                    3
     you
                     2
     me
                    2
     to
     there
[2.e]
strin = input("Enter a sentence to convert into upper and lower cases: ")
print(f"Upper Case : {strin.upper()}")
print(f"Lower Case : {strin.lower()}")
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Enter a sentence to convert into upper and lower cases: HelLo WoRlD
     Upper Case : HELLO WORLD
     Lower Case : hello world
[3]
strin = input("Enter a comma seperated sequence of words: ")
print(','.join(sorted(list(set(strin.split(','))))))
     Enter a comma seperated sequence of words: red, white, black, red, green, black
     black, green, red, white
[4]
def Eliminate_Letter(word,letter):
     return word.replace(letter, '')
print(Eliminate_Letter("malayalam", 'a'))
     mlylm
[5.a]
def Replace_vowels(word):
     return word.replace('a', '').replace('e', '').replace('i', '').replace('o', '').replace('u', '')
print(Replace_vowels("education"))
     dctn
[5.b]
def modify_case(word):
     return ''.join([i.lower() if i.isupper() else i.upper() for i in list(word)])
print("HeLlo TheRe")
print(modify_case("HeLlo TheRe"))
     Hello TheRe
     hElLO tHErE
[5.c]
def get_char(word,position):
     if position<len(word) and position>=-len(word):
          return word[position]
     else:
          return f"Invald Indexing: {position}"
print(get_char('Malayalam', 2))
     1
[6]
def ispal(x):
     if isinstance(x, str) == False:
         raise ValueError ("ValueError: invalid Literal for the type 'str'")
     rev = x[::-1]
     if x == rev:
          return True
     return False
print(ispal("malayalam"))
print(ispal("education"))
```

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True
     False
[7]
strin = input("Enter your Full Name: ")
     Enter your Full Name: Ajay kumar garg
print(strin[0].upper()+". ", end='')
for i, val in enumerate(strin):
     if val == " ":
          print(strin[i+1].upper()+". ", end="")
     A. K. G.
Ajay Kumar Garg = A. K. G.
[8]
def shuffleWord(word):
    for i in range(len(word)+1):
       print(word[i:] + word[:i])
shuffleWord("SHIFT")
     SHIFT
     HIFTS
     IFTSH
     FTSHI
     TSHIF
     SHIFT
[9]
strin = input("Enter a password to check validity: ")
def passwordCheck(paswrd):
    pass_stat = stat(paswrd)
     if len(paswrd)<8:</pre>
          print("Invalid Password: The password must be at least eight characters long.")
     if pass_stat[4]==0:
          print('Invalid Password: It must contain at least one uppercase letter.')
     if pass_stat[5]==0:
          print('Invalid Password: It must contain at least one lowercase letter.')
          return
     if pass_stat[0]==0:
          print("Invalid Password: It must contain at least one numeric digit.")
     print(f"Valid Password: The given Password {paswrd} satisfies all condition")
     Enter a password to check validity: reee5
def stat(x):
    dg = 0
     void = 0
     vow = 0
    alpha = 0
    up = 0
    low = 0
     for i in x:
         if i.isdigit():
              dg += 1
          if i.isspace():
               void += 1
          if i in ['a', 'e', 'i', 'o', 'u']:
               vow += 1
          if i.isalpha():
               alpha += 1
```