1) Add (hello) in the middle of given string, if the value is odd then add one number.

Like Arun-----ArHelloun ,shivam------shiHellovam

```
In [1]:    1  text1=input("Enter your Text: ")
           2
           3  a=len(text1)
           4  if a%2!=0:
           5      a=a+1
           6
           7  a=int(a/2)
           8
           9  b=''
          10  for i in range(len(text1)):
          11      if i !=a:
          12          b=b+text1[i]
          13      else:
          14          b=b+"Hello"+text1[a]
          15
          16
          17  print(b)
```

```
Enter your Text: shivam
shiHellovam
```

2) Write a program to count each character of given string like: ¶

aabbbbbccc

a 2 b 5 c 3

aabbbbbzccc

a 2 b 5 z 1 c 3

```
In [2]:    1
           2  a='aabbbbbzccc'
           3  b=''
           4  c=0
           5
           6  # for i in a:
           7  #     if i not in b:
           8  #         b=b+i
           9  #         print(b[c],a.count(b[c]))
          10  #         c=c+1
          11
          12
          13  for i in a:
          14      if i not in b:
          15          b=b+i
          16  for i in b:
          17      print(i,a.count(i))
          18
          19  # for i in range(len(b)):
          20  #     print(b[i],a.count(b[i]))
          21
          22
          23
```

```
a 2
b 5
z 1
c 3
```

3) WAP to print reverse by character , word and character of word

a="How are you"

s1='you are how'

s2='woH era uoy'

s3='uoy era woH'

```
In [3]:    1  a="How are you"
           2  s1=''
           3  s2=''
           4  s3=''
           5  b=a.split()
           6  for i in range(1,len(b)+1):
           7      s1=s1+(b[-i])+" "
           8
           9  for i in range(1,len(s1)+1):
          10      s2=s2+(s1[-i])
          11
          12
          13  for i in range(1,len(a)+1):
          14      s3=s3+(a[-i])
          15  print(s1)
          16  print(s2)
          17  print(s3)
          18
          19
          20

you are How
 woH era uoy
uoy era woH
```

4) WAP to take a Phone of user and check condition of number if number is start 9 or 8 and lenght is 10 then print number is correct otherwise print number is incorrect

```
In [4]:    1  a=input("Enter your number")
           2  if (len(a)==10) and (a[0]=='9' or a[0]=='8'):
           3      print("Number is corrected")
           4  else:
           5      print("Number is incorrect")
           6

Enter your number9000000000
Number is corrected
```

5) WAP to take a string and count any one character in string
'ShivamSS' --->s=3

'ShivamSS' --->s=3

```
In5   1  a='ShivamSS'
      2  count = 0
      3  for i in a:
      4      if i=='S':
      5          count=count+1
      6  print("S-->",count)

      S--> 3
```

6) WAP to to take a string and count the vowel and constant value

```
In [6]:   1  a=input("Enter your string: ")
          2  vow='aeiou'
          3  vo=0
          4  cons=0
          5  for i in a:
          6      if i in vow:
          7          vo=vo+1
          8      else:
          9          cons=cons+1
         10  print('Vowels : ',vo)
         11  print('Constant: ',cons)

         Enter your string: Shiva Techno Group
         Vowels :  6
         Constant:  12
```

7) Remove all duplicate
aabbbbbccc------> abc

```
In [7]:   1  a='aabbbbbccc'
          2  b=''
          3  c=0
          4  for i in a:
          5      if i not in b:
          6          b=b+i
          7
          8  print(a,'-----',b)
          9

         aabbbbbccc ----- abc
```

8) WAP to take a string

sa2shv3shivam2'

saashvvvshivamm

a2b3dc4

aabbbdcccc

```
14  a='a2b3dc4'
15  # saashvvvshivamm
16  for i in range(len(a)):
17      if a[i].isalpha():
18          print(a[i],end='')
19      else:
20          aa=a[i-1]
21          for i in range(int(a[i])-1):
22              print(aa,end='')
23  # na='sa2shv3shivam2'
24  # s=''
25  # # na='a2b3dc48'
26  # a=''
27  # for i in na :
28  #     if i.isalpha():
29  #         a=a+i
30  #     else:
31  #         s=s+a*(int(i))
32  #         a=''
33  # print(s)
```

aabbbdcccc

9) Count upper case and lower case in string

```
In [9]:  1  s=input("Enter you String: ")
         2
         3  sma=0
         4  ca=0
         5  for i in range (len(s)):
         6      if s[i]>='a':
         7          sma=sma+1
         8      elif s[i]>='A':
         9          ca=ca+1
        10
        11  print("Small",sma)
        12  print("Capital",ca)
```

```
Enter you String: Shiva Techno Group
Small 13
Capital 3
```

10) WAP to change the character "a" to "i"

```
In [10]:  1  s="Shivam"
          2
          3  for i in range(0,len(s)):
          4      if s[i]!='a':
          5          print(s[i],end='')
          6
          7      else:
          8          print('i',end='')
          9
```

Shivim

11) WAP to take string from user and print only alphanumeric string

'Shivam14 asd food boe434'

Shivam14 boe434

```
In11    1  s='Shivam14 asd food boe434'
        2
        3
        4  l=s.split()
        5  a=''
        6  for i in l:
        7      if i.isalpha() or  i.isdigit() :
        8          a=a+i+' '
        9      else:
       10          print(i)
       11
       12  print(a,'----->Only Character')
       13

        Shivam14
        boe434
        asd food  ----->Only Character
```

12) WAP to find the uncommon string ¶

a='abcd'

b='abc'

d

```
In [12]:    1  a='abcd'
            2  b='abc'
            3  aa=''
            4  for i in a:
            5      if i not in b:
            6          aa=aa+i
            7  print(aa)

            d
```

13) WAP to find numeric value of string.

```
In [1]:    1  # 1234456
           2  a='Shivam1234456@@@'
           3
           4  In=''
           5  for i in a:
           6      if i.isdigit():
           7          In=In+i
           8
           9  print(In)
          10
          11

           1234456
```

14) WAP to find Character of string.

```
In [51]:  1  a='Shivam1234456@@@'
          2
          3  In=''
          4  for i in a:
          5      if i.isalpha():
          6          In=In+i
          7
          8  print(In)
          9

Shivam
```

15) WAP to find Special character of string.

```
In [52]:   1  a='####Shivam1234456@@@$^&**&^%$#'
           2
           3  In=''
           4  for i in a:
           5      val=i.isalnum()
           6      val2=i.isalpha()
           7      if val==False and val2==False:
           8          In=In+i
           9
          10  print(In)
          11

####@@@$^&**&^%$#
```

16) Count upper case, lower and special character case in string.

```
In [53]:   1
           2
           3  s=input("Enter you String")
           4  # s='Aa1@ab'
           5  sma=0
           6  ca=0
           7  di=0
           8  sp=0
           9  for i in s:
          10      if i.islower():
          11          sma=sma+1
          12      elif i.isupper():
          13          ca=ca+1
          14      elif i.isdigit():
          15          di=di+1
          16      else:
          17          sp=sp+1
          18  print("Small",sma)
          19  print("Capital",ca)
          20  print("Special",sp)
          21  print("Number",di)

Enter you StringShiva $ Techno @ Group #
Small 13
Capital 3
Special 8
Number 0
```

17) WAP to reverse the string.

```
In [3]:    1  # a='shivam'
           2  a=input("Enter you String: ")
           3
           4  for i in range(1,len(a)+1):
           5      print(a[-i],end='')
           6
```

```
Enter you String: Shiva Techno Group
puorG onhceT avihS
```

18) WAP to reverse the case of string with using method.

```
In [4]:    1  a='Shiva is boy'
           2  new=''
           3  for i in a:
           4      if i.isupper():
           5          new=new+i.lower()
           6      else:
           7          new=new+i.upper()
           8  print(new)
```

```
sHIVA IS BOY
```

19) Given a string of odd length greater than 7, return a new string made of the middle three characters of a given String.

```
In [5]:    1  # a='JhonDipPeta'
           2  a='JaSonAy'
           3
           4  le=len(a)
           5  if le%2!=0:
           6      b=le//2
           7      print(b)
           8  else:
           9      b=(le+1)//2
          10  c=b+2
          11  print(a[b-1:c])
          12
```

```
3
Son
```

20) Program to find maximum and minimum occurring character in a string.

```
In [6]:   1
          2  a='aabbbbbbbbbccccccccccccccccccccccccccccccccc'
          3  b=''
          4  d=0
          5  da=''
          6
          7  for i in a:
          8      if i not in b:
          9          b=b+i
         10  for i in b:
         11      co=a.count(i)
         12      if co>d:
         13          d=co
         14          da=i
         15  print(d,da)
```

32 c