6/10/2025, Monday. Dictionary - dict Always values are stored in key; value prios Here, key is summitable and values are mulable. We represent dict by dict() (00 E;3 pdata = [ 'name': 'Lekhs', 'ph\_no: 8971818272', place: 'Swetz' } pdata O/p ('name': 'lekhs', ph=no: place; = 13 19 \* To entract keys of chick pdata, keys () ob dect-keys (['name', 'ph-no', 'place']) \* values pdata. values () of olict-values (['Lekhs', ' \* To update / replace value polata ['ph-no'] = 7676195572' \* To busest new element Polatal'age'] = 23 \* To delete a particular key & value @ element Polata.pop('ph\_no') 7676195872 \* To volelete last element pdata.popitem() opp(age', '22)

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* To volelete the volid polata. delete []
> solata = { 'sid ': [1,2,3,4], name': ['a,b', c', d'],
          'class: ['8th', '10th', '7th', '10th,]}
=> string-Sequence of characters
          Update can be done only by wing concatenation.
          Immutable en structure
 Str = Machine Learning
 At Ofp 'Machine Lerry'
-> str[0] 'M'
-> str = str+'python' of Machine Learshingpython'
=> Count how many vowels, consonents, special icharacters
   and religited not or are there.
  S=python @ course & price & 2s! 2350 t
  VOW=0
  cons = 0
   Spc = 0
                                if i. isatpha Com
   dig=0
    og i en mas
            en 'aerou':
                                       for & En S:
                                         of i. isalphal):
                                            if i kn'aerou':
         todaget is is digit
                                                cons +=1
                                         elif i. isdigit():
                                              clig + = 1
                                              Spc+=1
  print (f"no. of vonels: { vow3 \n no, of consonents; Econs y \n
        no. of sc: {spc}\n no. of digets: {dig })
  of mo- of vowels; 7
 → Create a sparate lest for upper Elower case characters.
   5 = "PyThon Students"
   Su=0
                              OP
   Sl=0
   for ? Rws:
                           ['P,"T,'O', 'S', 'U', 'E'] ('y', 'h', 'n',
     if in! = " 1;
       if is esupper():
                                      '£',d',n, 't','s']
 print (su, sl)
```

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1 Create a string made of 1"t, middle and last character.
Workte a progrash to create a new string made of an Enjoyed
string's first, middle and last character
S = Enput ("Enter a strong: ")
 new-1string = (5[0] + 5 (len (5) 1/2] + 5[-1])
 print (new-string)
 O/P Enter a Abring: Priya -> pia
                        pavana -> paa
2. Create a string made of an Enjord string's first, middle,
                         middle 3 characters of an Englit string.
 and last character.
 S = input (" Enter a string: ")
  mid = len (s) 1/2
                                     S (mid-1: mid+2)
 new_str = $[mid-1] + 8[m
(s[mid-1]: s[mid+2])
 point new-str
 of Enter a strong: Jason Ay
3. Append new string en the middle of a given string.
given 2 strings, 81 and S2. Write a grogram to create a
nene string 53 by appending 82 en the middle of 1.
  S1= "Ault
  SZ= " Kelly
  mid = len (s1) //2
  53 = (51[:mid] + 52 + 51 [mid :])
   print(S3)
   olp Aukeliytt
```