```
A built in date type that stores set of values. It can store elemes of different types (lateres, flood, string, etc)
     Strings with cannot be chay.
                                                        111 - 10x 1 (1,5)
     Lists are metalele in python
                                                           por (1150)
       Mutable mass which can be chonge
                                                            E16151113 Septe
                   List Methods
                                                 1020 Wall 12 course to State of y
      list =[2,1,3]
   (i) List-append (4)
                     # adds one element at the end [2, 1,3,4]
(ii) list. sort ()
                    # sooth in ascending order [1,2,3]
(11) list. Sort (requese = True) # sorts in descending order [3,2,1)
(1) list . recurse ()
                     # reverse lit [3,1,2]
(v) list. insert (idx,el) to insert clamed at index
```

List. apperd # odds one element as in end [2,1,3] List = [2, 1,3] when we add an element it is called muting value list. append (4) print (list)

Output 2) 2, 1, 3, 4

(in list sut() # soots in ascending order List = [1,42, 15] print (List . sort ()) Mis of the of the first the sale of the : 11) print (1154)

list- soit (neverse 2 Town) # sort in descending order Lista [10, 5, 45, 12, 16, 47] print (list) for (reusu = true)

[47,45,16,12,10,5)

(1) list reverse of # reverse list (8) C15+ = E10,5,8,7,6,4] of the part with that, that, they can 11st recess () prin (list) Output (4, 6, 7, 8, 5, 10] Il instil Clome of as index List insert (idx rel) List = [1,2,3) 11st · insert (1,5) List at mutable on 14 pris (list) [1,5,2,3) Supper gist occurred of element (VI) List remove # removed list. pop is und to remoce. list 1 1, 5, 8, 6 Lister appeared Cal A color one clin and at the land I 2 list . POP (3) Ch. cort () in south in ascending order [1, 2, 2] prid (list) 6 (ist . server () 4 secons () (3,12) (VII) # write a prepour to ask the city to enter names of their s Just the mass and she Them in a Ist. 6 6 movies = [ ] 92 Str (input ("Enter the film: ")) 62 sto ( input ( "Enter to film: ")) 1.3 1.33 c=st (mpst ("Enter the plan :")) movies append (a)
movies append (b)
movies append (c) por (11/4) Outpt = 2,1,3,4 prind (mivies) p- ox 2nd way to solve. (15) - \$ 1,42, 13) movies [] ( Drus ( Dist o south) movies appead (input ("Enter the giles;")) movies. append lingut ("Ender he film: ")) Tout May movies. append (input (Enter the plan: 11) print (movies) -Dave ( 116. 100 ( course - way) Owput Lace, def , gair (48) Eigh (5401 20191 50 2112 -

```
Returns the length of the list passed as the argument
    Example 11st = [10, 20, 30, 40,50]
         >>> len (1,5+1)
   list ()
  craytes a list if a sequence is passed as an airgument.
      727 115+12 115+()
            Strl = 'aciou'
           115+1 = 1,5+ (Str)
                                 father course in Coll lit
      >>> 11/5+1
                                to type her two here
        [d,'e','1', 'd, 'u']
                          from while is to con In pyman
   Append ()
    Appends 9 single climent passed as an argument at
 the end of the list. The single element can also be a list.
          >>> list 1 = [10,20,30,40]
         227 1ist1, append 250)
          [10,20, 30,40,50]
          >>> list1 = [10, 20, 30, 40]
          777 listl. append [[50] (0])
          777 list 1
           [10,20,30, 40, [50,60])
     Extend ()
     Appends each clomen of the list passed as argument
to the end of the green 11s'.
          >>> 115t = [10, 20,30]
         777 /ist2 2 [40,50]
        7) 11st 1. extend (11st 2)
       つつつ リナノ
          [10,20,30,40,50]
```

```
Count ()
  Returns the number of times a given eliment appears in the 15%.
         777 1ist 12 [ 10, 20, 30, 10, 40, 10]
        >>> 1ist lo Court (10)
         777 11st1. Gund (90)
 Inclux ()
     Returns index of the girst occurree of the element in
the 1'st of the element is not prosent, value error is
    generated
          list 1 = [10,20,30,20,40,10]
          11st 1. index (20)
          777 list 1. index (90)
         value Emo: 90 15 not in 1107.
min()
   Return the minimum or smallest element of the 115t.
         777 list 1= [34,12,83,39,92,44]
         000 min (111+1)
       Returns the maximum a largest clonent of the 1st.
        777 11st 12 [34, 12,63, 39, 92, 44]
          max ((1)+1)
Sum ()
       Returns the sum of the element of the 1:11.
            000 list 12 [ 34, 12, (3, 39, 92, 44)
           577 Sum ( /114 1)
                289
```