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SBL – Python – Experiment ④

→ Aim : Write a program to demonstrate the use of list and related functions.

→ Theory : (1) Lists are used to store multiple items in a single variable.

(2) There are various functions avaible for lists

(3) These functions help in using the lists feature In many ways.

(4) List can be difihed as a data structure in python that is a mutable or changeable, ordred sequence of elements

(5) Each element inside the list is known as item.

→ Program :

```
animals = ['cat', 'Dog']
animals. append [' rabbit ']
print ('The updated animal list is :', animals)

animals. insert (1 'rat')
print ('The list after Inserting in between :- ', animals)
animals.pop (2)
print ('The list after removing an element is: ', animals)
animals. reverse ()
print ('The list after reversing is :- ', animals)
```

→ Output :

The updated animal list is :- ['rat', 'dog', 'rabbit']

The list after inserting is :- ['cat', 'rat', 'dog', 'rabbit']

The list after removing an element is : ['cat', 'rat', 'rabbit'].

The list after reversing is ['rabbit', 'rat', 'cat'].

→ Result :

(1) This as we see there are many ~~functions~~ functions inbuilt in python. Few of them are demonstrated above.

(2) We can modify and use list in many ways using these functions.