- Asignment - 1 (Module-5)

i) what is dictionary in python? Explain with an example.

a) python dictionary is an unordered collection of items. Each item of a dictionary kes a Key/value pair.

Dictionaries are optimized to retrieve ralues when the key 9s known.

creating python Dictionary;

thems inside curly braces of; separated by

The Hem has a keye value expressed as a spair (key: value)

an repeat, Keys must be of "immutable type and must be unique.

Ext. 'my-dict = {} =# empty dictionary

my-dict = {1: ia!, 2: 'b'}

my-dict = dict& 1: 'a'; 2116/3) =# using dict.

Accessing Elements from Dictionary!

This indexing is used with other datatypes

to access values, a dictionary uses keys.

Keys can be used either in side square

brackets [] or with get is method.

The square brackets [] k.

-7 If we use the square brackets [], keyerror is vaised in case a key is not found in the dictionary.

Ext my-died = &' name': 'a', lage': 26 }

print Cmy-died L'name']

print Cmy-diet [age')]

c/p: a
26.

Changing and Adding Dictionary Elements: Dictionaries are mutable.

of existing Hems using an assignment operator.

Ez!- my-dict = & 'name! la', lage: 26 }

my-dict [àge'] = 97 + update value.

my-dict [àdress'] = 1 hyd' # add Hem.

prin-l Cmy-dict)

Osp: ¿ name: 'à', lage! 24, 'address! hyd's

```
2) python program to sur all elements in
   a list.
   L, n = [], int cinput ('Enter no of elements: 1))
   print C'Enter elements !)
   dor in in range (0, n);
       (= "rol ("nputic))
       Leapsend (i)
   print (' sum of all elements "in list!', sum (1))
  o/p: enter no. of elements : 4
      Errky elements:
      Q
      5
      sum of all elements in list: 17
3) ville a python program to create list of
   empty dictionaries.
    L= [13]. +3
    print (' The list of empty dictoraries is: ,1)
   O/p: The list of empty dictionaries is: [43, £3, £3.
4) write a python program to access dictionary
 Keys element by Index.
   d= q b11, b12, b133
      for i ind!
         Print ('key ralue of', d[13, 12, 1)
```

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Key value of 1: or
   Key value of 21 c
  Key value of B' b
5) write python program to i-trade over
  dichonories using for loops.
    d = &'a' 11, 1 c' 12, 16 ! 3 }
    -for kinds
      Frind (K, d(K))
   0/p: a1
          63
 Dalpon brodraw
                       to sum all Hems in
    dichonary.
      n = int (inputalenter a n rialue! )).
      4,5=43,0
     for i in vange (n);
         "print ( Enky Key: 1)
          keys = 9 npxt()
          "print ( 'Entervalue!)
           Values = int Cinputa)
           d(keys) = values
      -print (d)
      -lor "ind;
           (i)b = +e
```

Trint ('sums 's)

olpi enter a n value 13

enter key!

enter key!

enter key!

2

enter value;

3

enter value;

6

é'i': 4, -'s': 3, '3:63

Sum = 13

4) brite a python script to concatenak following dictionaries to create a new one.

a. die 1 = {1:10, 21,20}

b. dic2 = {3130, H:40}

c. dic3 = {5:50, 6:60}

dic1 = {1:10, 2120}

dic2 > {3:30, H:40}

dic3 = {5:50, 6:66}

dic3 = {5:50, 6:66}

dic4 > {3

dic4 >

Print c'resultant dieti, dich)
Olp:

resultant dictivilio12:20, 3:30, 4140, 5:50, 6160}