

Python Assignment Day - 11

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What is dictionary?

- A dictionary is a collection which is unordered,changeable and indexed.
- In python ,dictionaries are written with curly brackets and they have keys and values.
- A key in dictionary can be any immutable type like strings,numbers and tuples.
- The values in dictionary are accessed using keys.

```
1  #Example of dictionary
2  # empty dictionary
3  my_dict = {}
4  # dictionary with integer keys
5  my_dict = {1: 'apple', 2: 'ball'}
6  # dictionary with mixed keys
7  my_dict = {'name': 'John', 1: [2, 4, 3]}
8  # using dict()
9  my_dict = dict({1:'apple', 2:'ball'})
10 # from sequence having each item as a
    pair
11 my_dict = dict([(1,'apple'), (2,'ball')])
```



```
1 #Program to sum all the items in a list.  
2 def sum_list(items):  
3     sum_numbers = 0  
4     for x in items:  
5         sum_numbers += x  
6     return sum_numbers  
7 print(sum_list([1,3,-8]))  
8
```



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[Program finished]

```
1 #Program to create a list of empty  
  dictionaries.  
2 n = 5  
3 l = [{ } for _ in range(n)]  
4 print(l)
```



```
{}, {}, {}, {}, {}]
```

```
[Program finished]
```

```
1 #Program to access dictionary keys  
  elements by index.  
2 my_dict={'name':'sandhya','age':18}  
3 print(my_dict['name'])  
4 print(my_dict.get('age'))  
5 print(my_dict.get('address'))  
6 print(my_dict['address'])
```



sandhya

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None

Traceback (most recent call last):

File "/data/user/0/ru.iiec.pydroid3/files/accomp_files/iiec_run/iiec_run.py", line 31, in <module>

start(fakepyfile,mainpyfile)

File "/data/user/0/ru.iiec.pydroid3/files/accomp_files/iiec_run/iiec_run.py", line 30, in start

exec(open(mainpyfile).read(), __main__.__dict__)

File "<string>", line 6, in <module>

KeyError: 'address'

[Program finished]