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.

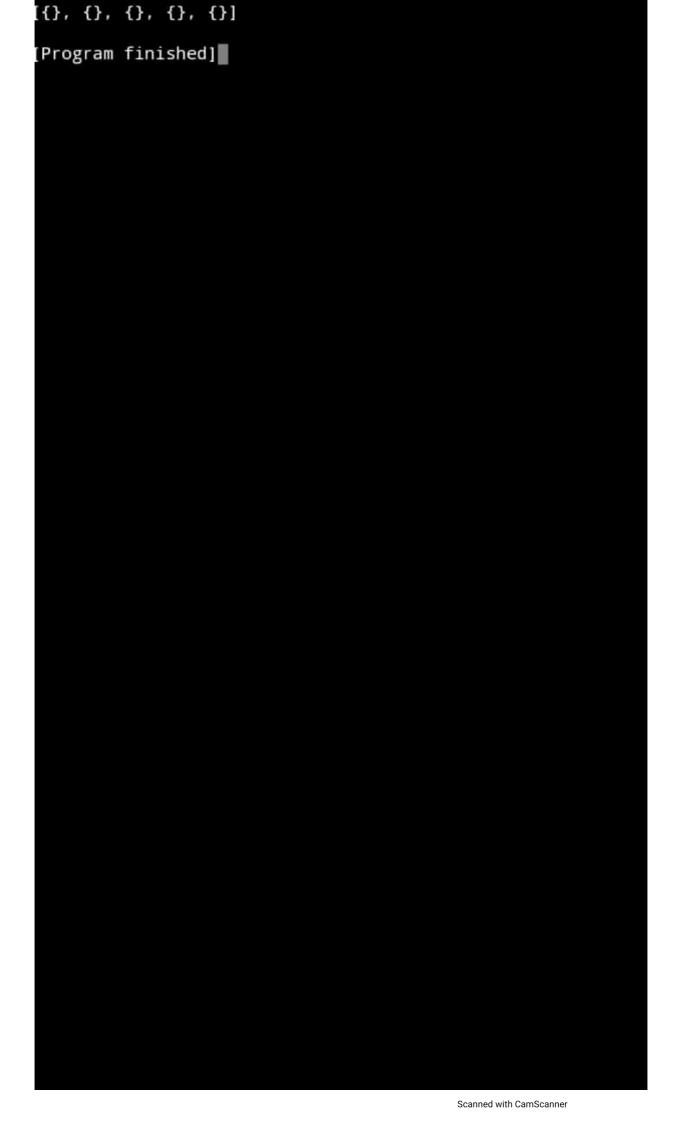
```
#Example of dictionary
    # empty dictionary
    my_dict = {}
    # dictionary with integer keys
 5
    my_dict = {1: 'apple', 2: 'ball'}
    # dictionary with mixed keys
 6
 7
    my_dict = {'name': 'John', 1: [2, 4, 3]}
    # using dict()
 8
    my_dict = dict({1:'apple', 2:'ball'})
 9
    # from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

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



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





```
#Program to access dictionary keys
elements by index.

my_dict={'name':'sandhya','age':18}
print(my_dict['name'])
print(my_dict.get('age'))
print(my_dict.get('address'))
print(my_dict['address'])
```



```
sandhya
18
None
raceback (most recent call last):
 File "/data/user/0/ru.iiec.pydroid3/files/accomp_files/iie
_run/iiec_run.py", line 31, in <module>
    start(fakepyfile,mainpyfile)
 File "/data/user/0/ru.iiec.pydroid3/files/accomp_files/iie
_run/iiec_run.py", line 30, in start
 exec(open(mainpyfile).read(), __main__.__dict__)
File "<string>", line 6, in <module>
KeyError: 'address'
[Program finished]
```