

1. Create a dictionary for the States and Capitals and print the same.

Soln
Capitals = { 'Maharashtra': 'Mumbai',
 'Delhi': 'New Delhi',
 'DP': 'Lucknow',
 'Tamil Nadu': 'Chennai', }

print (Capitals)

Capitals ['Punjab'] = 'Chandigarh'

print (Capitals)

2. Modify the Value/Key in the dictionary by adding two more States and Capitals

Soln
States = dict()

n = int(input("Enter the number of States: "))


for i in range(n):

State = input("Enter State")

Capital = input("Enter Capital")

States[State] = Capital

print(States)



3. How to delete a specific value in dictionary using pop() or del keyword

Soln
There are various ways to remove a specific item

- del keyword
- clear() method
- pop() method
- popitem() method

Is a Python dictionary modifiable? Write one example.

Yes, it is modifiable and they can be sensitive.

g

mydict = {}

mydict = {1: 'apple', 2: 'ball'}

Post Lab Questions

Write the program that accepts a sentence and calculate the number of letters and digits in the given sentence.

```
s = input("Enter your sentence: ")
```

```
d = 0
```

```
l = 0
```

```
for c in s:
```

```
    if c.isdigit():
```

```
        d = d + 1
```

```
    elif c.isalpha():
```

```
        l = l + 1
```

```
else:
```

```
    pass
```

```
print("Letters", l)
```

```
print("Digits", d)
```

Write a program using dictionary to create a small dictionary of synonyms. The program should accept a word and generate synonyms that are same.

```
import json
```

```
from difflib import get_close_matches
```


data = json.load(open("dictionary.json"))

def translate(w):

W = w.lower()

if w in data:

return data[w]

elif len(get_chars(matches(w, data.keys())))

gn = gn.lower()

if gn == "y":

return data[get_chars(matches(w, data.keys()))[0]]

elif gn == "n":

return "We didn't understand"

else:

return "The word doesn't exist"