DICTIONARY

 # #Author - Shiuli Maji Date - 10/01/2023 # #

(a) Create a Dictionary

```
d1={1:'ami',2:'tumi',3:'se',4:'friend'} print
("The Dictionary is: “, end=' ') print(d1)
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
The Dictionary is :  {1: 'ami', 2: 'tumi', 3: 'se', 4: 'friend'}
```

 # #Author - Shiuli Maji Date - 10/01/2023 # #

(b) Access Values using Keys

```
d2= {1:5,2:4,3:5,3:8}
print ("The Dictionary is {}”. format(d2)) n=int
(input ("Enter 'key' from the Dictionary:")) print
("The value of '{}' is: “. format(n), end=' ')
print(d2[n])
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
The Dictionary is {1: 5, 2: 4, 3: 8}
Enter 'key' from the Dictionary :3
The value of '3' is :  8
```

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(c) Use get () method to access values

```
d2= {1:5,2:4,4:5,3:8} print

("The dictionary is: “, d2)

print(d2.get (2))
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"

The dictionary is :  {1: 5, 2: 4, 4: 5, 3: 8}

4
```

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(d) Create a dictionary from two lists.

```
key=['cpu','ssd','ram'] valu=['2.4Hz','512',8]

print("The 1st list is : {}".format(key)) print("The

2st list is : {}".format(valu)) print("The

Dictionary is : ",end=' ') print(dict(zip(key,valu)))
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"

The 1st list is : ['cpu', 'ssd', 'ram']

The 2st list is : ['2.4Hz', '512', 8]

The Dictionary is :  {'cpu': '2.4Hz', 'ssd': '512', 'ram': 8}
```

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(e) Add a new item to the dictionary

```
d2={1:5,2:4,4:5,3:8}
print ("Before add a new item , The dictionary is: {}".format(d2)) d2[5]=10
print("After add a new item , the dictionary is: ",end=' ') print(d2)
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
Before add a new item , The dictionary is: {1: 5, 2: 4, 4: 5, 3: 8}
After add a new item , the dictionary is:  {1: 5, 2: 4, 4: 5, 3: 8, 5: 10}
```

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(f) Delete an item

```
d2={1:5,2:4,4:5,3:8}
print("Before delete an item , the dictionary is: {} ".format(d2))
print("After delete an item , the dictionary is :",end=' ') del
d2[2] print(d2)
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
Before delete an item , the dictionary is: {1: 5, 2: 4, 4: 5, 3: 8}
After delete an item , the dictionary is : {1: 5, 4: 5, 3: 8}
```

#Author - Shiuli Maji Date - 10/01/2023

 # (g) Create a nested dictionary d1={'c':['dec c++','turbo c'],'python':{64:'vscode',32:'pychram'}} print("The nested dictionary is : ",d1)

OUTPUT:

PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"

The nested dictionary is : {'c': ['dec c++', 'turbo c'], 'python': {64: 'vscode', 32: 'pychram'}}

 # ## #Author - Shiuli Maji Date - 10/01/2023 # (h)

Delete an item using pop() method d2={1:5,2:4,4:5,3:8}

print("Before delete an item , the dictionary is: {} ".format(d2)) a=d2.pop(2)

print("After delete an item , the dictionary is :",end=' ') print(d2)

OUTPUT:

PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"

Before delete an item , the dictionary is: {1: 5, 2: 4, 4: 5, 3: 8} After delete an item , the dictionary is : {1: 5, 4: 5, 3: 8}

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(i) Delete an item using popitem () method

d2={1:5,2:4,4:5,3:8}

print("The dictionary is :{} ".format(d2))

```
print("After execute 'popitem()' method , the dictionary is: ",end=' ')
n=(d2.popitem()) print(d2)
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
The dictionary is :{1: 5, 2: 4, 4: 5, 3: 8}
After execute 'popitem()' method , the dictionary is:  {1: 5, 2: 4, 4: 5}
```

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(j) Delete all items from a dictionary d2={1:5,2:4,4:5,3:8}

```
print ("The dictionary is: {} ". format(d2))
print("After delete all items from a dictionary , the dictionary is : ",end=' ')
print(d2.clear())
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
The dictionary is : {1: 5, 2: 4, 4: 5, 3: 8}
After delete all items from a dictionary , the dictionary is :  None
```

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(k) Get the length of a dictionary d2={1:5,2:4,4:5,3:8}

```
print ("The dictionary is: {} ". format(d2)) print("The
length of dictionary is : ",end=' ') print(len(d2))
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
```

The dictionary is : {1: 5, 2: 4, 4: 5, 3: 8}

The length of dictionary is : 4

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 # # (l) Execute items() method

```
d2={1:5,2:4,4:5,3:8}
print("The dictionary is : {} ".format(d2))
print("After excute '.items()' method , the dictionary is : ",end=' ')
print(list(d2.items()))
```

OUTPUT:

PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"

The dictionary is : {1: 5, 2: 4, 4: 5, 3: 8}

After excute '.items()' method , the dictionary is : [(1, 5), (2, 4), (4, 5), (3, 8)]

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(m) Create a list with the keys of a dictionary

```
d2={1:5,2:4,4:5,3:8}
print("The dictionary is : {} ".format(d2))
print("A list with the keys of a dictionary is : ",end=' ') print(list(d2.keys()))
```

OUTPUT:

PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"

The dictionary is : {1: 5, 2: 4, 4: 5, 3: 8}

A list with the keys of a dictionary is : [1, 2, 4, 3]

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(n) Create a list with the values of a dictionary

```
d2={1:5,2:4,4:5,3:8}

print("The dictionary is {} ".format(d2))

print("A list with the 'values' of a dictionary is : ",end=' ')
print(list(d2.values()))
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"

The dictionary is {1: 5, 2: 4, 4: 5, 3: 8}

A list with the 'values' of a dictionary is : [5, 4, 5, 8]
```

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(o) Update a dictionary items with the items of another dictionary

```
d1={'a':'ami','b':'baba','c':'maa'}

d2={'a':'dada','x':'mama'} print("The

1st dictionary is ",d1) print("The

2nd dictionary is ",d2)

d1.update(d2)

print("After update() method , the dictionary is :",d1)
```

OUTPUT:

```
PS D:\Python> python -u "d:\Python\DICTIONARY\dic.py"
The 1st dictionary is  {'a': 'ami', 'b': 'baba', 'c': 'maa'}
The 2nd dictionary is  {'a': 'dada', 'x': 'mama'}
After update() method , the dictionary is : {'a': 'dada', 'b': 'baba', 'c': 'maa', 'x': 'mama'}
```