

Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32

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```
d={"id":4654,"name":"surya",101:2345}
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345}
```

```
type(d)
```

```
<class 'dict'>
```

```
len(d)
```

```
3
```

```
d1=d.copy()
```

```
d1
```

```
{'id': 4654, 'name': 'surya', 101: 2345}
```

```
d1.clear()
```

```
d1
```

```
{}
```

```
len(d1)
```

```
0
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345}
```

```
d.items()
```

```
dict_items([('id', 4654), ('name', 'surya'), (101, 2345)])
```

```
d.keys()
```

```
dict_keys(['id', 'name', 101])
```

```
d.values()
```

```
dict_values([4654, 'surya', 2345])
```

```
d.get('id')
```

```
4654
```

```
d.get(id)
```

```
d.get(101)
```

```
2345
```

```
d.get('gender')
```

```
d['id']
```

```
4654
```

```
d[id[
```

```
]
```

SyntaxError: incomplete input

```
d[id]
```

```
Traceback (most recent call last):
  File "<pyshell#21>", line 1, in <module>
    d[id]
  File "<pyshell#21>", line 1, in <module>
    d[id]
KeyError: <built-in function id>
d['name']
```

```
SyntaxError: incomplete input
d['name']
```

```
'surya'
d['location']
```

```
Traceback (most recent call last):
  File "<pyshell#24>", line 1, in <module>
    d['location']
  File "<pyshell#24>", line 1, in <module>
    d['location']
KeyError: 'location'
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345}
len(d)
```

```
3
d.setdefault('location')
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345, 'location': None}
d.get('location')
```

```
d['location']
```

```
d.get('location')='vja'
```

```
SyntaxError: cannot assign to function call here. Maybe you meant '==' instead
of '='?
d['location']='vja'
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345, 'location': 'vja'}
type(d.get('name'))
```

```
<class 'str'>  
type(d['location'])
```

```
<class 'str'>
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345, 'location': 'vja'}  
d.setdefault('gender':'male')
```

```
SyntaxError: invalid syntax  
d.setdefault('gender')
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345, 'location': 'vja', 'gender': None}  
d.keys()
```

```
dict_keys(['id', 'name', 101, 'location', 'gender'])  
d.update({'gender':'male'})
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345, 'location': 'vja', 'gender': 'male'}  
d.update({'gender':'female','dept':'cse'})
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345, 'location': 'vja', 'gender': 'female', 'dept':  
'cse'}  
d.setdefault('dept')
```

```
'cse'
```

```
d
```

```
{'id': 4654, 'name': 'surya', 101: 2345, 'location': 'vja', 'gender': 'female', 'dept':  
'cse'}  
d.pop(101)
```

```
2345
```

```
d.popitem()
...
('dept', 'cse')
>>> d

...
{'id': 4654, 'name': 'surya', 'location': 'vja', 'gender': 'female'}
>>> d.keys()

...
dict_keys(['id', 'name', 'location', 'gender'])
>>> type(d.keys())

...
<class 'dict_keys'>
>>> d.values()

...
dict_values([4654, 'surya', 'vja', 'female'])
>>> type(d.values())
...
)
...
<class 'dict_values'>
```