Add Attributes to the Node

```
In [ ]:  import networkx as nx
         # The following line initializes two empty directed graph objects
         G=nx.DiGraph()
```

```
In [47]:  G.add_node('abc', dob=1185, pob='usa', dayob='monday')
          G.add_node('def', dob=1185, pob='usa', dayob='sunday')
```

```
In [54]:  for n,d in G.nodes() (data=True):
              print(n,d['dob'],d['pob'],d['dayob'])
```

```
abc 1185 usa monday
def 1185 usa monday
```

Update the attributes

```
In [56]:  for n,d in G.nodes() (data=True):
              d['pob']=d['pob'] + ' xx'
```

```
In [57]:  for n,d in G.nodes() (data=True):
              print(n,d['dob'],d['pob'],d['dayob'])
```

```
abc 1185 usa xx monday
def 1185 usa xx monday
```

Add Objects to the Node

In [33]:
```python
import networkx as nx
G1=nx.DiGraph()
class Person:
  def __init__(self, name, age):
    self.name = name
    self.age = age

p1 = Person("John", 36)
p2 = Person("Smith", 46)
p3 = Person("Brown", 30)

G1.add_node(1,data=p1)
G1.add_node(2,data=p2)
G1.add_node(3,data=p3)
print(G1.nodes())
print(G1.number_of_nodes())
```

```
John
[1, 2, 3]
3
```

In [39]:
```python
for n,d in G1.nodes(data=True):
    print(d['data'].name, ' ',d['data'].age)
```

```
John    36
Smith   46
Brown   30
```

Remove Node

In [41]:
```python
G1.remove_node(1)

for n,d in G1.nodes(data=True):
    print(d['data'].name, ' ',d['data'].age)
```

```
Smith    46
Brown    30
```

Update Node

In [42]:
```python
for n,d in G1.nodes(data=True):
    d['data'].name ='XX'
    d['data'].age = 0
```

In [43]:
```python
for n,d in G1.nodes(data=True):
    print(d['data'].name, ' ',d['data'].age)
```

```
XX    0
XX    0
```

In [ ]: