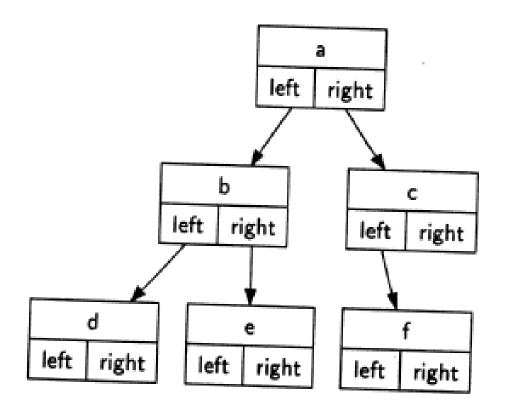
5.4.2 düğümler ve referanslar

- \rightarrow sınıf kullan,
- → her biri BinaryTree nesnesi olan



gerçekleme – kavramlar

self.left = None

self.right = None

kavramlar

4

5

- → key: kök
- → sol | sağ: referans, altağaç

altağacı ekle

```
sol altağacı ekle
           def insertLeft(self,newNode):
1
               if self.left == None:
                   self.left = BinaryTree(newNode)
               else:
4
                   t = BinaryTree(newNode)
5
                   t.left = self.left
6
                   self.left = t
7
    demo
   myTree = BinaryTree('a')
   myTree.insertLeft('d')
   myTree.insertLeft('b')
 → dipnot: defterden çizim (S1)
```

altağacı ekle

sağ altağacı ekle

```
def insertRight(self,newNode):
    if self.right == None:
        self.right = BinaryTree(newNode)
    else:
        t = BinaryTree(newNode)
        t.right = self.right
        self.right = t
```

demo

```
PB:5205
                                           devam
    >>> # cat listing_5_5..8.py \
                                          1 >>> solAltAgac = myTree.left
              > listing_5_5_8.py
                                          2 >>> solAltAgac.getRootVal()
    >>> #
    >>> from listing_5_5_8 import *
                                              'h'
    >>> myTree = BinaryTree('a')
                                              >>> solAltAgac.left.getRootVal()
                                          5 'd'
    >>> myTree.insertLeft('b')
5
    >>> myTree.left.insertLeft('d')
                                              >>> solAltAgac.right.getRootVal()
    >>> myTree.left.insertRight('e')
                                              'e'
    >>> myTree.insertRight('c')
                                              >>> sagAltAgac = myTree.right
8
    >>> myTree.right.insertLeft('f')
                                          9
                                              >>> sagAltAgac.getRootVal()
                                              'c'
    >>> # show tree
10
                                         10
    >>> myTree.getRootVal()
                                              >>> sagAltAgac.left.getRootVal()
11
                                         11
                                              'f'
    'a'
                                         12
12
    >>> myTree.left.getRootVal()
13
    'b'
14
    >>> myTree.right.getRootVal()
15
    'c'
16
    → dipnot: defterden çizim (s2)
```