

```
#Creating, accessing and modifying a dictionary
```

```
grades = {"John": 87, "Steve": 76, "Laura": 92, "Edwin": 89}  
# the names represent the "key" and the grades represent the values
```

```
print "\nAll grades:", grades
```

```
#-----
```

```
print "\nSteve's current grade:", grades["Steve"]  
# access the key Steve and print the value associated with that key
```

```
#-----
```

```
grades["Steve"]=90  
print "Steve's new grade:", grades["Steve"]  
#modifies Steve's grade
```

```
#-----
```

```
grades["Michael"]=93  
print grades  
# adds Michael to the dictionary
```

```
#-----
```

```
del grades["John"]  
print grades  
# delete John from the dictionary
```

```
definition = {"circle":"A circle is the locus of all points equidistant from a central point"}
```

```
term = raw_input("What term do you want me to define?")
```

```
if term in definition:  
    print definition[term]
```

```
else:  
    print "Sorry, I don't know that definition"
```

```
definition = {"circle":"A circle is the locus of all points equidistant from a central point"}
```

```
term = raw_input("What term do you want me to add to the dictionary?")
```

```
if term not in definition:  
    new_def = raw_input("What is the definition of your word?")  
    definition[term]=new_def  
    print definition
```