Create a dictionary of student attribute

In [19]:

```
record = dict()
record = {"Name" : "Muhammad Yasir", "Roll No" : "BITF19M526", "degree" : "Bs - IT", "semester" : 5}

print(record)
print(record['Name'])
print(len(record))

print("Roll No" in record)
print("Roll no" in record)

# print(record["Muhammad Yasir"]) Direct data can not be accessed
val = record.values()
print("Muhammad Yasir" in val)
print("Muhammad yasir" in val)
```

```
{'Name': 'Muhammad Yasir', 'Roll No': 'BITF19M526', 'degree': 'Bs - IT', 'semester': 5}
Muhammad Yasir
4
True
False
True
False
```

Count Character using dictionary

In [20]:

```
word = "Muhammad Yasir Babar"
d = dict()

for i in word:
    if i not in d:
        d[i] = 1
    else:
        d[i] += 1

print(d)
```

```
{'M': 1, 'u': 1, 'h': 1, 'a': 5, 'm': 2, 'd': 1, ' ': 2, 'Y': 1, 's': 1, 'i': 1, 'r': 2, 'B': 1, 'b': 1}
```

Count number of words in a file and check if a certain word exist in file, else show 0

In [4]:

```
fout = open("data.txt")

count = dict()

for line in fout:
    words = line.split() #will create a list of all words (sepreated by a space)
    for word in words:
        if word not in count:
            count[word] = 1
        else:
            count[word] += 1

#print(count)
for key in count:
    print(key, count[key], end = "\t")

val = input("\nEnter word to find ")
print(count.get(val, 0))
```

```
Cupidatat 1     dolor 4 officia 3       elit 2  dolore 1        sit 2   eu 1    reprehenderit 2 amet 1  ad 4
commodo 2       deserunt. 1     Ex 1    magna 1 tempor 4        consectetur 2   commodo. 1      Minim 1 nostrud
1       et 1    in 2    do 3    adipisicing 2   incididunt 2    nisi 1  consequat 1     laboris 2       aliquip
1       ullamco. 1      Nostrud 1       anim 1  quis 1  ipsum 1 magna. 1        Dolor 1 nulla 1 voluptate 1
velit 1 anim. 1 Sunt 1  occaecat 1      sunt 1  excepteur 1     aliqua 1        aute 1  cupidatat 1     labore
1       proident 1      enim 1  velit. 1        Id 1    exercitation 1  sint 1  nulla. 1
Enter word to find nulla
1
```

Display count of words in sorted order

In [5]:

```
li = list(count.keys())
li.sort()
for key in li:
    print(key, count[key])
```

```
Cupidatat 1
Dolor 1
Ex 1
Id 1
Minim 1
```

Nostrud 1
Sunt 1
ad 4
adipisicing 2
aliqua 1
aliquip 1
amet 1
anim 1
anim. 1
aute 1
commodo 2
commodo. 1
consectetur 2
consequat 1
cupidatat 1
deserunt. 1
do 3
dolor 4
dolore 1
elit 2
enim 1
et 1
eu 1
excepteur 1
exercitation 1
in 2
incididunt 2
ipsum 1
labore 1
laboris 2
magna 1
magna. 1
nisi 1
nostrud 1
nulla 1
nulla. 1
occaecat 1
officia 3
proident 1
quis 1
reprehenderit 2
sint 1
sit 2
sunt 1
tempor 4

ullamco. 1
velit 1
velit. 1
voluptate 1