In [2]:

```
"""List of Operators:
Arthemtic Operator
Logical Operator
Assigment Operator
Comparision Operator
Identity Operator
Mebership Operator
Bitwise Operator"""

id = int(input("Enter the Id: ")) # Assigment Operator
ids = [1,2,3,4,5] # Assigment Operator
likes = {1:56,2:86,3:98,4:78,5:45} # Assigment Operator
Comments = {1:['Nice','Super'],2:[],3:['Hi'],4:['good',['set'],['k']],5:[]}
if id in ids: # MemberShip Operator
    menu = int(input("""Select one of the following option:
            1. Like
            2.Comment
            3.Likes Count
            4.Comment Count
            5.Account Interaction"""))
    if menu == 1: # Comparison Operator
        likes[id] = likes[id] + 1 # Arthimetic Operator
    if menu == 2:
        c = input("Type the comment")
        Comments = Comments[id].append(c)
    if menu == 3:
        print("Total Likes on Profile is {}".format(likes[id]))
    if menu == 4:
        print("Total Comments on Profile is {}".format(len(Comments[id])))
    if menu == 5:
        for i in range(1,len(ids)+1):
            if likes[i] <= 1 and len(Comments[i]):
                print("Account Not Interactive")
        else:
            print("Active Account")
else:
    e = int(input("""You Don't Have An account
                1.Create An Account
                2.Quit"""))
    if e == 1: # Comarison Operator
        new_id = int(input("Choose the New Id for Your Profile:")) #Assigment Operator
        for i in ids:# Membership Operator
            if ids[i] is new_id: # Identity Operator
                print("The id already Exits! Please Enter New One")
    else:
        print("Byee!")
```

```
Enter the Id: 2
Select one of the following option:
            1. Like
            2.Comment
            3.Likes Count
            4.Comment Count
            5.Account Interaction4
Total Comments on Profile is 0
```

Loop

In [18]:

```
namelist = []
print("Options:")
print("  0      Quit")
print("  1      Check if I know you")
print("  2      Introduce yourself to me")
print("  3      Make me forget you")
print("  4      Print a list of people I know")
print()     # print an empty line

while True:
    option = input("Choose an option: ")
    if option == '0':
        print("Bye!")
        break
    elif option == '1':
        name = input("Enter your name: ")
        if name in namelist:
            print("I know you! :D")
        else:
            print("I don't know you :/")
    elif option == '2':
        name = input("Enter your name: ")
        if name in namelist:
            print("I knew you already.")
        else:
            namelist.append(name)
            print("Now I know you!")
    elif option == '3':
        name = input("Enter your name: ")
        if name in namelist:
            namelist.remove(name)
            print("Now I don't know you.")
        else:
            print("I didn't know you to begin with.")
    elif option == '4':
        if namelist == []:
            print("I don't know anybody yet.")
        else:
            for name in namelist:
                print("I know %s!" % name)
    else:
        print("I don't understand :(")
    print()
```

```
Options:
  0      Quit
  1      Check if I know you
  2      Introduce yourself to me
  3      Make me forget you
  4      Print a list of people I know

Choose an option: 2
Enter your name: Harinath Reddy
Now I know you!

Choose an option: 2
Enter your name: Rohit
Now I know you!
```

```
Choose an option: 4
I know Harinath Reddy!
I know Rohit!

Choose an option: 0
Bye!
```

TryExceptions

In [4]:

```
try:
    age = int(input("Enter Age"))
    if age >= 18:
        l = ['Boom Beer','KingFisher Beer','Budvisor Beer']
        i = input("enter the drink name")
        try: #Using Try
            if i in l:
                print("TADAAA!! Have your drink!")
            else:
                raise Exception ("Out of Stock") #Raising Own Exception
        except Exception as e:
            print(e)
        finally: #Using Finally
            print(" Enjoy the day")
    else:
        raise Exception("Not in the Age Bracket")
except Exception as e:
    print(e)
```

```
Enter Age19
enter the drink nameBoom Beer
TADAAA!! Have your drink!
 Enjoy the day
```

Collections -- List

In [6]:

```
# Collections In Python

l = []
for i in range(7):
    l.append(i)
print(l)

a = ['Harinath','Tanuboddi','Reddy','Ap']
a.remove('Ap')
print(a)

a = [1,2,3,4,5,1,3,2,7,9,23,11,3]
print(a.count(1))

a = ['H','a','r','i','n','a','t','h','r','e','d','d','y','t']
a.pop()
print(a)

a = [2,4,6,8,10,12,14,16,18,20,22,24]
a.append(26)
print(a)

a =['Bangolore']
a.clear()
print(a)

a = [1,2,3,4]
b = []
b=a.copy()
print(b)

a = [1,2,3,4,5,6]
b = [7,8,9,10]
a.extend(b)
print(a)

a = [1,542,345342,43532,54647345,35437463,6346543,754634453,57436]
a.sort()
print(a)

a = ['harinath','rohit','snehith','yash','rahul']
print(a.index('rohit'))

a = [2,4,8,10,12,16]
a.insert(2,6)
print(a)

a = [423,445435,346325,653,65,46,2,62,65426,654,25,625]
a.reverse()
print(a)
```

```
[0, 1, 2, 3, 4, 5, 6]
['Harinath', 'Tanuboddi', 'Reddy']
2
['H', 'a', 'r', 'i', 'n', 'a', 't', 'h', 'r', 'e', 'd', 'd', 'y']
[2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26]
[]
```

```
[1, 2, 3, 4]
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
[1, 542, 43532, 57436, 345342, 6346543, 35437463, 54647345, 754634453]
1
[2, 4, 6, 8, 10, 12, 16]
[625, 25, 654, 65426, 62, 2, 46, 65, 653, 346325, 445435, 423]
```

Collections Tuples

In [7]:

```
tup1=(1,2,3,4,5)
#indexing
print(tup1[3])
#slicing
print(tup1[3:5])
#minimum and maximum in tup1
print(min(tup1),max(tup1))
#length
print(len(tup1))
#sorting
print(sorted(tup1))
#negative index
print(tup1[-1])
tup2=("Harinath")
tup3=("reddy")
#concatenation:
print(tup3+tup2)
#membership operator using tuple
print(21 in tup1)
print(21 not in tup1)
```

```
4
(4, 5)
1 5
5
[1, 2, 3, 4, 5]
5
reddyHarinath
False
True
```

Collections Dictonarys

In [8]:

```
dict1={'34':43,'66':66,'89':98}
#update the vlaue
dict1['34'] = 34
print(dict1)
#add item
dict1['66'] = 99
print(dict1)
# remove a particular item
print(dict1.pop('89'))
#removing last element using pop
print(dict1.popitem())
#gives all values
print(dict1.values())
#gives all keys
print(dict1.keys())
```

```
{'34': 34, '66': 66, '89': 98}
{'34': 34, '66': 99, '89': 98}
98
('66', 99)
dict_values([34])
dict_keys(['34'])
```

Collections Sets

In [14]:

```
A={34,56,34}
B={1,2,'Hari'}
print(type(B))
#intersection
A.intersection(B)
print(A)
#discarding
A.discard('K')
print(A)
#add an element
A.add('KKK')
print(A)
#union method
A.union(A)
print(A)
#removing
A.remove(34)
print(A)
#pop random element
print(A.pop())
#adding multiple elements
A.update([5,4,6.5])
print(A)
#difference
A.difference(B)
print(A)
```

```
<class 'set'>
{56, 34}
{56, 34}
{56, 34, 'KKK'}
{56, 34, 'KKK'}
{56, 'KKK'}
56
{4, 5, 6.5, 'KKK'}
{4, 5, 6.5, 'KKK'}
```

InClass ProblemStatement

In [17]:

```
L =['Pavan is Teaching Hadoop','Pavan is Teaching Spark']
a = []
for i in L:
    for j in i.split(" "):
        a.append(j)
print(a)
```

```
['Pavan', 'is', 'Teaching', 'Hadoop', 'Pavan', 'is', 'Teaching', 'Spark']
```

In [ ]:

```

```