1]►Create a list containing four strings: your first name, your last name, and the names of two courses you're taking this semester. Write a for loop that prints each string in turn. Challenge (not needed in lab report): Instead of printing the entire string, print only the first 3 characters in each string! • Hint: Use slices!

In [8]:
```
list = ["ethan","childs","trigonometry","intro to CS"]
for x in list:
    print(x)
```

```
ethan
childs
trigonometry
intro to CS
```

2]► Write a program to do the following: a) Create the list [10, 20, 30] and store it in the variable li1. b) Create the list ['aaa', 'bbb'] and store it in the variable li2. c) Concatenate the two previous lists, and store the result in li3. d) Repeat li3 three times and store the result in li4. e) Print the length of li4. f) Print the first 5 and last 5 elements of li4 using slices. g) Find out if the number 42 is in li4. Print the answer.

In [52]:
```
li = [10,20,30]
li2 = ["aaa","bbb"]
li3 = (li + li2)
li4 = (li3*3)
print(li4)
print("First 5 of li4",li4[0:5])
print("Last 5 of li4",li4[10:15])

for i in li4:
    if i == 42:
        print("42 is found")
    else:
        print("42 is not found")
```

```
[10, 20, 30, 'aaa', 'bbb', 10, 20, 30, 'aaa', 'bbb', 10, 20, 30, 'aaa', 'bbb']
First 5 of li4 [10, 20, 30, 'aaa', 'bbb']
Last 5 of li4 [10, 20, 30, 'aaa', 'bbb']
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
42 is not found
```

3]► Write a program to do the following: a) Create the list [1.5, 2.5, "three", 3.5] and store it in the variable li. Print li. b) Insert 42 at index 1 in li. c) Insert 43 at index 1 in li and print li. d)

Append -5 and print li. e) Remove 2.5 from the list and print li.

In [48]:
```
li = [1.5,2.5,"three",3.5]
print(li)
li.insert(1,42)
print(li)
li.insert(1,43)
print(li)
li.append(-5)
print(li)
li.remove(2.5)
print(li)
```

```
[1.5, 2.5, 'three', 3.5]
[1.5, 42, 2.5, 'three', 3.5]
[1.5, 43, 42, 2.5, 'three', 3.5]
[1.5, 43, 42, 2.5, 'three', 3.5, -5]
[1.5, 43, 42, 'three', 3.5, -5]
```