Lab 2

(Prof. Carlos J. Costa)

1) Construct a list (shoppingList) including 'potatoes', 'carrots', 'cod' and 'sprouts'

In [1]:
```
#Code here
```

2) Get the second and the last element of the list

In [2]:
```
#Code here
```

3) Iterate though the list in order that the users see the following list of phrases: "We should eate sprouts", "We should eate carrots"...

In [3]:
```
#Code here.
```

4) Add the follwoing elements to the shoppingList: orange and lime

In [4]:
```
#Code here
```

5) Remove the carrots, the first element and last element of the shoppingList list

In [5]:
```
#Code here
```

6) How many fruits are there in the shopping list

In [7]:
```

```

7) Obtain the first 3 elements of the list

In [ ]:
```
#Code here
```

8) What is the result of

shopping = shoppingList

shoppingListCopy = shoppingList[:]

print(shopping)

Why?

In [ ]:
```
#Code here
```

9) What is the result of

shopping = shoppingList

shoppingList.append("orange")

print(shopping)

Why?

In [ ]:
```
#Code here
```

10) romove all the items from the shoppingList

In [ ]:
```
#Code here
```

11) What is the result of,

newPurchases= ("bananas", "beans", "rice")

print (newPurchases [1])

newPurchases [0] = "apple"

Why?

In [ ]:
```
#Code here
```

12) Create a dictionary including the follwoing elements: orange, apple, pear, grape and peach. Key are 1 to 5. Iterate through key-value pair.

In [ ]:
```
#Code here
```

In [ ]:

13) Create a weekList that is composed of several lists, each one corresponding to a day list. Each day list includes the groceries to buy on this day..

In [9]:
```
#Code here
```

14) Delete the shoppingList list

In [10]:
```
#Code here
```

15) Create a list where x is belongs to a list of values from 1 to 100 and you want to generate a new list of y.

$y = 3x^2 + 2x + 4$

In [ ]:
```
#Code here
```