



#### Q1:

- for the following List apes = ["Homo sapiens", "Pan troglodytes", "Gorilla gorilla"]
- kindly, for each element in list print the following:
- Homo sapiens is an ape. Its name starts with H
   Its name has 12 letters

### Q2:

- Processing DNA in a file The file input.txt
   contains a number of DNA sequences, one per
  line. Each sequence starts with the same 14 base
  pair fragment a sequencing adapter that
  should have been removed.
- Write a program that will 1- trim this adapter 2write the cleaned sequences to a new file and 3print the length of each sequence to the screen.

## Q3:

What is the difference?

```
i=0
while i !=10:
──*i=i+1
──*print (i)
```

```
i=0
while i !=10:
──*i=i+1
print (i)
```



## Farmer problem

a farmer is asking you to tell him how many legs can be counted among all his animals. The farmer breeds three species:

- chickens = 2 legs
- cows = 4 legs
- pigs = 4 legs

The farmer has counted his animals and he gives you a subtotal for each species. Write a function that takes 3 integers, number of chicken, number of cows and number of pigs then returns the total number of legs

# String mutation

- Read a given string, change the character at a given index and then print the modified string.
- Example:

Input: Abracadabra, 5,k

Output: abrackdabra