The changes required in the sailing manual:

- The manual was 4,096 pages long, which took about 40 years for a sailor to read and master. All that was required was to shorten the manual so that reading it would be easier.
- The instructions are repetitive and need to be abbreviated with key words. For example: - follow as done, before and then do as follows…

The changes in the manual will result in these improvements:

- They don't have to carry this huge manual around
- The sailors won't take as long as 40 years to read, and understand the manual.
- If the techniques and lessons in the manual need to be updated or changed, the book will not have to be rewritten page for page but instead one or two can be changed or modified.

Relations between organizing the manual and the concept of functions in programming are:

- A function provides an elegant way of reusing code and reduces the chance of making a mistake. Similarly, with the manual, a step was repeated in lines 25-35 on every page and if changes are required there is more room for error when modifying every line on every page.
- For example:-

```
void drawPerson()

{

 line( 40,100, 40,170) ; // body

 line( 40,170, 20,230) ; // left leg

 line( 40,170, 60,230) ; // right leg

 line( 40,130, 20,170) ; // left arm

 line( 40,130, 60,170) ; // right arm

 fill(150) ; // grey for head fill

 ellipse(40,100,20,20) ; // head

}

void setup()

{

 size(400,400) ;

 drawPerson(0,50) ;
```

```
 drawPerson(150,50) ;

 drawPerson(300,50) ;

 }
```