

# Program 01

## Hello World

---

Pedro Fernando Flores Palmeros

### 1 INTRODUCTION

The main pupose of this document is just to explain main components of the code. It is not go deeper, if further information is required books can be used.

### 2 CODE

---

```
1  -- hello_world.adb
2
3  with Ada.Text_IO;
4
5  procedure hello_world is
6
7  begin
8      Ada.Text_IO.Put_Line("Hello World!");
9      Ada.Text_IO.Put_Line("It's a wonderful day!");
10     Ada.Text_IO.New_Line;
11 end hello_world;
```

---

### 3 IMPORTANT DETAILS AND COMMANDS

#### 3.1 COMMENTS

In ADA the comments marked with -- and there are only comments of a single line.

### 3.2 PROCEDURE HELLO WORLD

A procedure can be seen like a function or special kind of it, in this case it is the main function and it is named `hello_world`.

If some variables might be or *subfunctions* are needed they have to be placed in the space between the declaration of the function (which in this case is given by `procedure hello_world is` and the `begin` command that in this particular case is at line 7.

The end of the procedure is in line 11 observe that it has to begin with the word `end` and then the name of the procedure to be finished, hence in this particular case is `end hello_world`.

### 3.3 PRINTING IN THE CONSOLE

`Ada.Text_IO.Put_Line("text")` with this command the text in *italic* is printed in the command line and after printing the content between the double quotes a new line will be commanded, hence the cursor is set one line down and in the left of the command line.

`Ada.Text_IO.Put("text")` with this command the text in *italic* is printed in the command line but the main difference between this command and the one before is that this one **DOES NOT ADD A NEW LINE**.

`Ada.Text_IO.New_Line` with this command no text is printed on the screen, only new line is commanded.

## 4 HELLO WORLD OPTION 2

---

```
1  -- hello_world.adb
2
3  with Ada.Text_IO; use Ada.Text_IO;
4
5  procedure hello_world is
6
7  begin
8      Put_Line("Hello World!");
9      Put_Line("It's a wonderful day!");
10     New_Line;
11 end hello_world;
```

---

The main difference between this program and the first one is that in line 3 the part `use Ada.Text_IO;` helps in the subsequent lines and observe that now to invoke the functions `Put_Line`, `Put` and `New_Line` it is not needed the first part of the command `Ada.Text_IO` since it has been declared previously.