

# Program 05

## For Loops First step

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### 1 INTRODUCTION

The main syntaxis of the For control structure is the next

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```
1 for item in IterativeStructure
2     statement 1
3     .
4     .
5     .
6     statement n
7 end loop
```

---

in this case IterativeStrucutre is an strucutre with many items, such as an array. Hence for each item in the array the statement 1 until statement n are executed.

### 2 CODE

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```
1 with Ada.Text_IO; use Ada.Text_IO;
2
3 procedure For_Loop is
4 begin
5     for I in 1..5 loop
6         -- Put_Line is a procedure call
7         Put_Line("Hello, World" & Integer'Image(I));
8
9         -- Procedure Parameter
```

```
10     end loop;  
11  
12 end For_Loop;
```

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### 3 MAIN PARTS

In this case in line 5 the for loop is used and can be "read" as *for each number from 1 to 5 execute the instructions in the for loop*. Observe that in this case `1..5` creates an iterable object like an array that stores `[1 2 3 4 5]`