



L#5

# Basics of Programming. Introduction

Course Basics of Programming Semester 1, FIIT

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# How to use arbitrary step in "for" & "loop"

- To do: Output all 2-digit odd numbers in range [11; 99]

11 13 15 17 19 21 ... 95 97 99

## Solution 1. With "loop" .

```
var x := 11;  
loop 45 do  
begin  
  Print(x);  
  x += 2;  
end;
```

step

initial value

number of all 2-digit odd numbers

## Solution 2. With "for".

```
for var i:=0 to 44 do  
  Print(11+i*2);
```

step

initial value

# Tasks

- To do: Lesson # 7, Tasks 1, 2, 3, 4, 5, 6, 7, 8

# How to use real step in **for & loop**

- To do: Output sequence

1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0

## Solution 1. With "loop".

```
var x := 1.0;  
loop 11 do  
begin  
  Print(x);  
  x += 0.1;  
end;
```

step

initial value

## Solution 2. With "for".

```
for var i:=0 to 10 do  
  Print(1.0+i*0.1);
```

initial value

step

# Tasks

- To do: Lesson # 7, Tasks 9, 10, 11, 12, 13, 14



Q & A