

Control Execution

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



Learning Objectives

We will learn



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We will learn

- ▶ **“while” loop**



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We will learn

- ▶ **“while” loop**
- ▶ **“for” loop**



System Requirement



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- **Ubuntu Linux OS Version 12.04**



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- ▶ **Ubuntu Linux OS Version 12.04**
- ▶ **KTurtle version 0.8.1 beta**



Pre-requisites



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- ▶ **Basic working knowledge of KTurtle**



Pre-requisites

- ▶ **Basic working knowledge of K Turtle**
- ▶ **For relevant tutorials, please visit our website**
<http://spoken-tutorial.org>



Control Execution



Control Execution

- ▶ **Control execution is controlling the flow of a program**



Control Execution

- ▶ **Control execution is controlling the flow of a program**
- ▶ **Different conditions are used to control program execution**



Loop



Loop

- ▶ **Block of code executed repeatedly until a certain condition is satisfied**



Loop

- ▶ **Block of code executed repeatedly until a certain condition is satisfied**
- ▶ **Eg: “while” loop and “for” loop**



“while” loop



“while” loop

- ▶ Code inside the loop repeats till boolean evaluates to false



Syntax of “while” loop



Syntax of “while” loop

```
while loop condition {  
    // do something  
    // with loop increment variable  
}
```



“for” loop



“for” loop

- ▶ “for” loop is a counting loop



“for” loop

- ▶ **“for” loop is a counting loop**
- ▶ **Variable value is incremented, till it reaches the end value**



Syntax of “for” loop



Syntax of “for” loop

**for variable = start number to end
number**

**{
Statement
}**



Summary



Summary

We have learnt to use



Summary

We have learnt to use

- ▶ **“while” loop**



Summary

We have learnt to use

- ▶ “while” loop
- ▶ “for” loop



Assignment



Assignment

Write programs to evaluate



Assignment

Write programs to evaluate

- ▶ **Multiples of 2 using “while” loop**



Assignment

Write programs to evaluate

- ▶ **Multiples of 2 using “while” loop**
- ▶ **Multiplication table of a number using “for” loop**



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
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Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Acknowledgements

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- ▶ **More information on this Mission is available at <http://spoken-tutorial.org/NMEICT-Intro>**

