while & until Loops

Talk to a Teacher
http://spoken-tutorial.org
National Mission on Education through ICT
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In this tutorial we will learn to use

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- **while loop**

Learning Objectives

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- **while** loop
- **until loop**

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- **until** loop
- **redo**

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In this tutorial we will learn to use

- **while** loop
- **until** loop
- **redo**
- **break**

Here we are using

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- **Ubuntu version 12.04**

System Requirements

Here we are using

- **Ubuntu version 12.04**
- **Ruby 1.9.3**

To follow this tutorial, you must have

Prerequisites

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- **Knowledge of Linux commands, Terminal and Text-editor**

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- **If not, for relevant tutorials, please visit http://spoken-tutorial.org**

- **Syntax of the while loop in Ruby is as follows:**

"while" loop

- Syntax of the **while** loop in Ruby is as follows:

"while" loop

- **Syntax of the while loop in Ruby is as follows:**

```
while "boolean expression"
    ruby code
end
```

- Syntax of the **while** loop in Ruby is as follows:

  while "boolean expression"
        ruby code
  end

- **Let us look at an example**

- **Syntax of the until loop in Ruby is as follows:**

- Syntax of the **until** loop in Ruby is as follows:

- **Syntax of the until loop in Ruby is as follows:**
  until "boolean expression"
  ruby code
  end

- Syntax of the **until** loop in Ruby is as follows:

  until "boolean expression"
          ruby code
  end

- **Let us look at an example**

- **Syntax of the redo loop in Ruby is as follows:**

- Syntax of the **redo** loop in Ruby is as follows:

"redo" loop

- Syntax of the redo loop in Ruby is as follows:

  "a collection of objects".each
   do | item |
       ruby code
       redo
   end

"redo" loop

- **Syntax of the redo loop in Ruby is as follows:**

  "a collection of objects".each
  do | item |
  ruby code
  redo
  end

- **Let us look at an example**

- **Syntax of the break statement in Ruby is as follows:**

break statement

- **Syntax of the break statement in Ruby is as follows:**

break statement

- **Syntax of the break statement in Ruby is as follows:**

  a looping statement

      a conditional statement

         break

      end conditional

  end loop

break statement

- **Syntax of the break statement in Ruby is as follows:**

  a looping statement

      a conditional statement

        break

      end conditional

  end loop

- **Let us look at an example**

In this tutorial we have learnt:

- **while** loop
- **until** construct
- **redo**
- **break** construct

As an assignment

- **Consider a range of numbers 100 to 115 (inclusive) represented as Fahren**

Assignment II

- Write a Ruby program using
- the appropriate loop construct
- use the Fahrenheit to Celsius
- conversion formula
- against the above range of numbers

Assignment III

- to display the output : "The temperature has reached a certain degree Celsius and has become unbearable"

- when the temperature in Celsius is above 32 degree Celsius

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