

Creating Classes

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://http://sakshat.ac.in>

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Learning Objectives



Learning Objectives

- **A class in real world**



Learning Objectives

- A class in real world
- A class in Java



Learning Objectives

- A class in real world
- A class in Java
- **Structure of a Java Class**



Learning Objectives

- A class in real world
- A class in Java
- Structure of a Java Class
- **Syntax**



Learning Objectives

- A class in real world
- A class in Java
- Structure of a Java Class
- Syntax
- **A simple example of Java class.**



System Requirements



System Requirements

- **Ubuntu 11.10 OS**



System Requirements

- **Ubuntu 11.10 OS**
- **JDK 1.6**



System Requirements

- Ubuntu 11.10 OS
- JDK 1.6
- Eclipse 3.7.0



Prerequisites



Prerequisites

- **To write, compile and run a simple Java program in Eclipse.**



Prerequisites

- To write, compile and run a simple Java program in Eclipse.
- Please refer to the spoken tutorial on these topics available at <http://spoken-tutorial.org>



A class in real world



A class in real world

- **Whatever we can see in this world are all objects.**



A class in real world

- Whatever we can see in this world are all objects.
- All the objects can be categorized into special groups.



A class in real world

- Whatever we can see in this world are all objects.
- All the objects can be categorized into special groups.
- **Each group is termed as a class.**



A class in real world



A class in real world

- **Example of a class : human being**



A class in real world

- Example of a class : human being
- **Objects: different people**



A class in real world

- Example of a class : human being
- Objects: different people
- Properties: eyes, legs, hands



A class in real world

- Example of a class : human being
- Objects: different people
- Properties: eyes, legs, hands
- Behaviors: seeing, eating, walking



A class in Java



A class in Java

- **A class is the blueprint from which individual objects are created.**



Structure of a Java Class



Talk to a Teacher



Structure of a Java Class

- **A set of properties called variables.**



Structure of a Java Class

- A set of properties called variables.
- A set of behaviors called methods.



Syntax



- **[modifier] class ClassName**
{
(variable, constructor and method
declarations)
}



Summary



Summary

- **About a class in Java**
- **To create a class in Java**



Assignment



Assignment

- Create a class named `Employee` with:
- variables: `emp_no` and `emp_name`
- method: `printEmployee` which displays the employee information



About the Spoken Tutorial Project

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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



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

