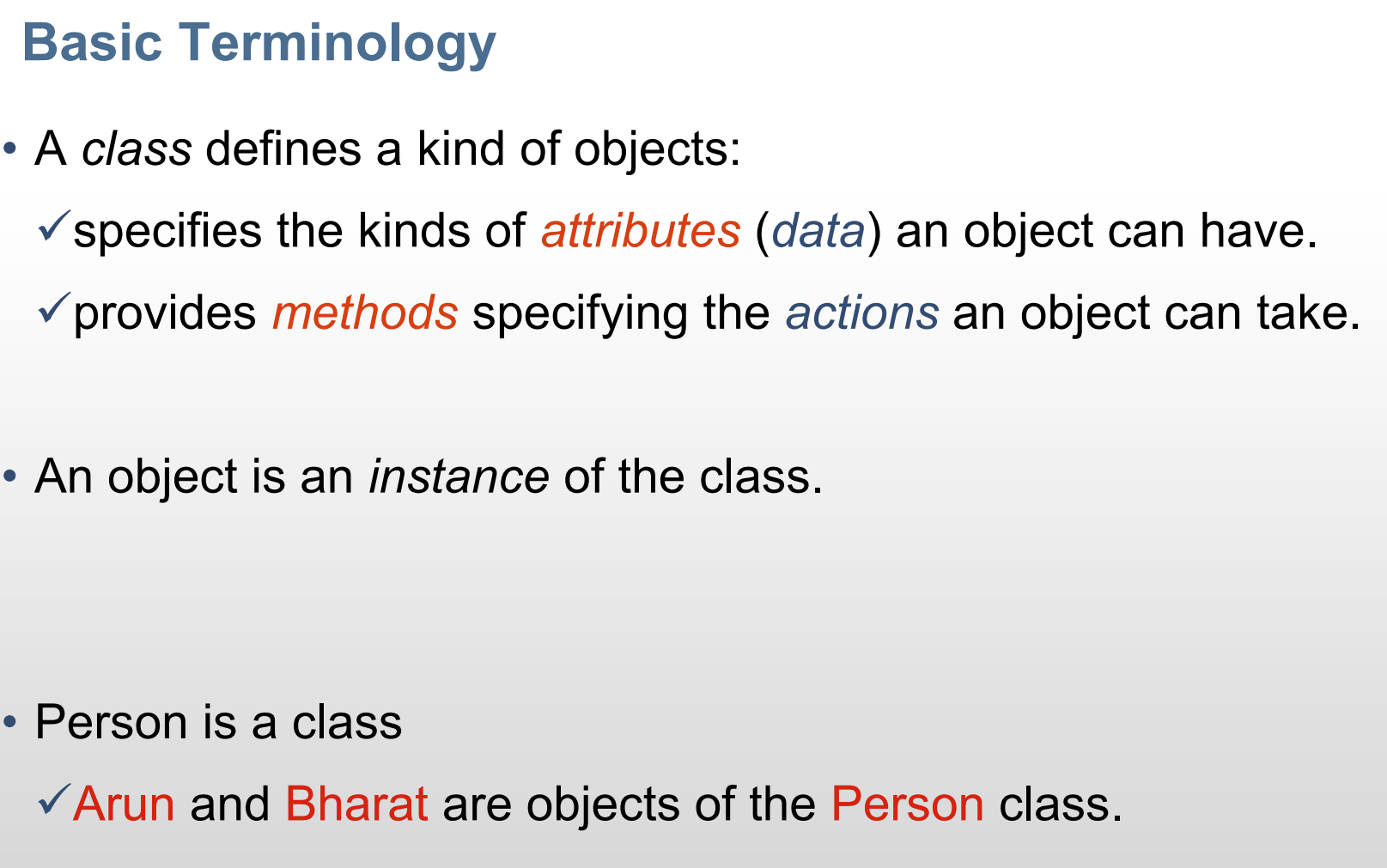
* Java class includes instance variables and methods.
* Class is a template for an object, defines the shape and behaviour of an object.
* Object is an instance of a class.



1. syntax:

class Class\_name

{

Instance variables(optional);

Constructors(optional);

Various methods(optional);

Main method(optional);

/\*one of the four things is necessary otherwise its useless to create a list in the first place\*/

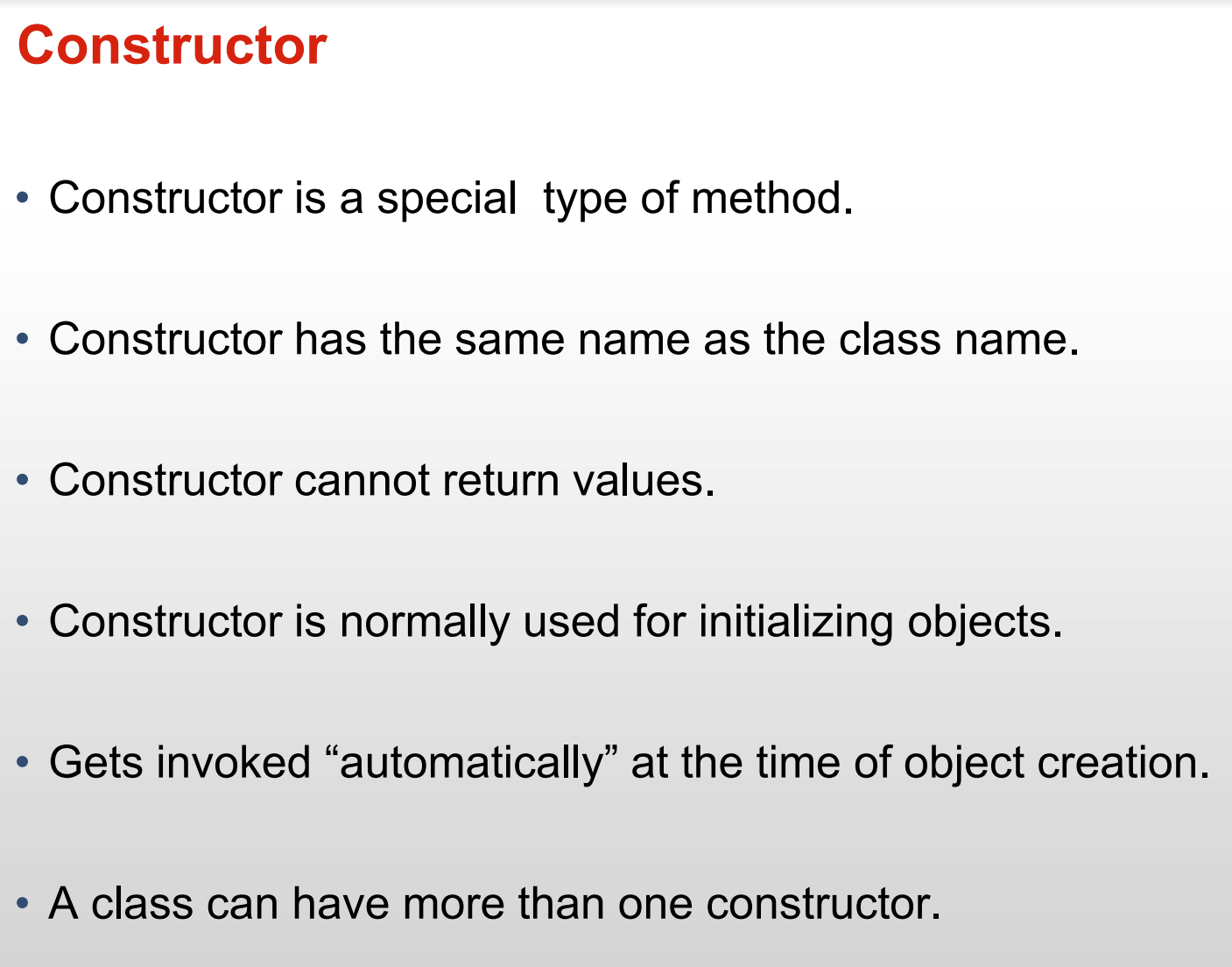
}

1. Declaration for creating an object :

Class\_name object\_name=new Classname(//parameters in case of parameterized constructors);

🡪programming examples aside.

CONSTRUCTORS



PARAMETERIZED AND NON-PARAMETERIZED CONSTRUCTORS🡪explain later…

THIS KEYWORD:

🡪done to differentiate between two variables with the same names.

🡪example:

Class Box

{

double height, width, depth;

Box(double width,double height,double depth)

{

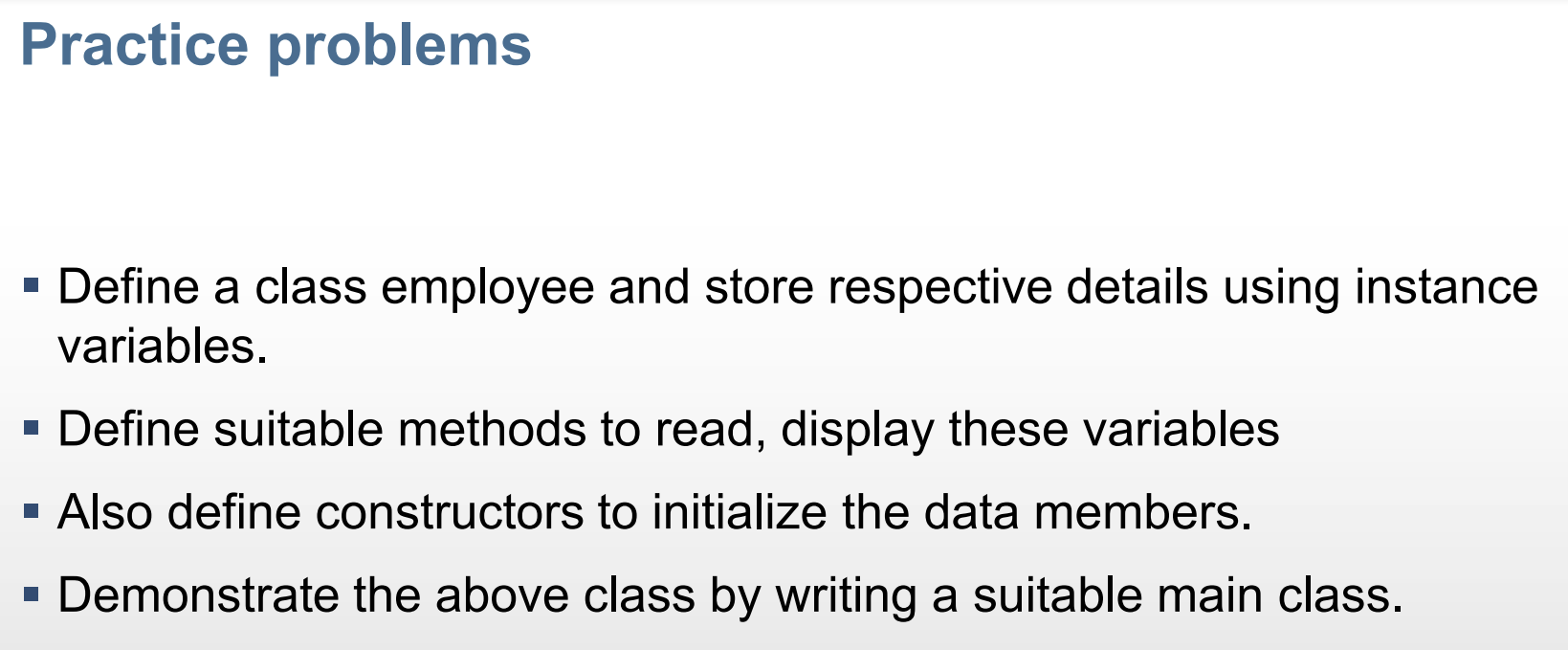
this. width=width;

this. height=height;

this. depth=depth;

}

}

 Text

Description automatically generated

OVERLOADING METHODS:

🡪having two or more methods with the same function name but different signatures(arguments/formal parameters) is called method/function overloading.

🡪example: methods for the calculation of area of rectangle, circle, triangle.

🡪Example in class 11th textbook

CONSTRUCTOR OVERLOADING:

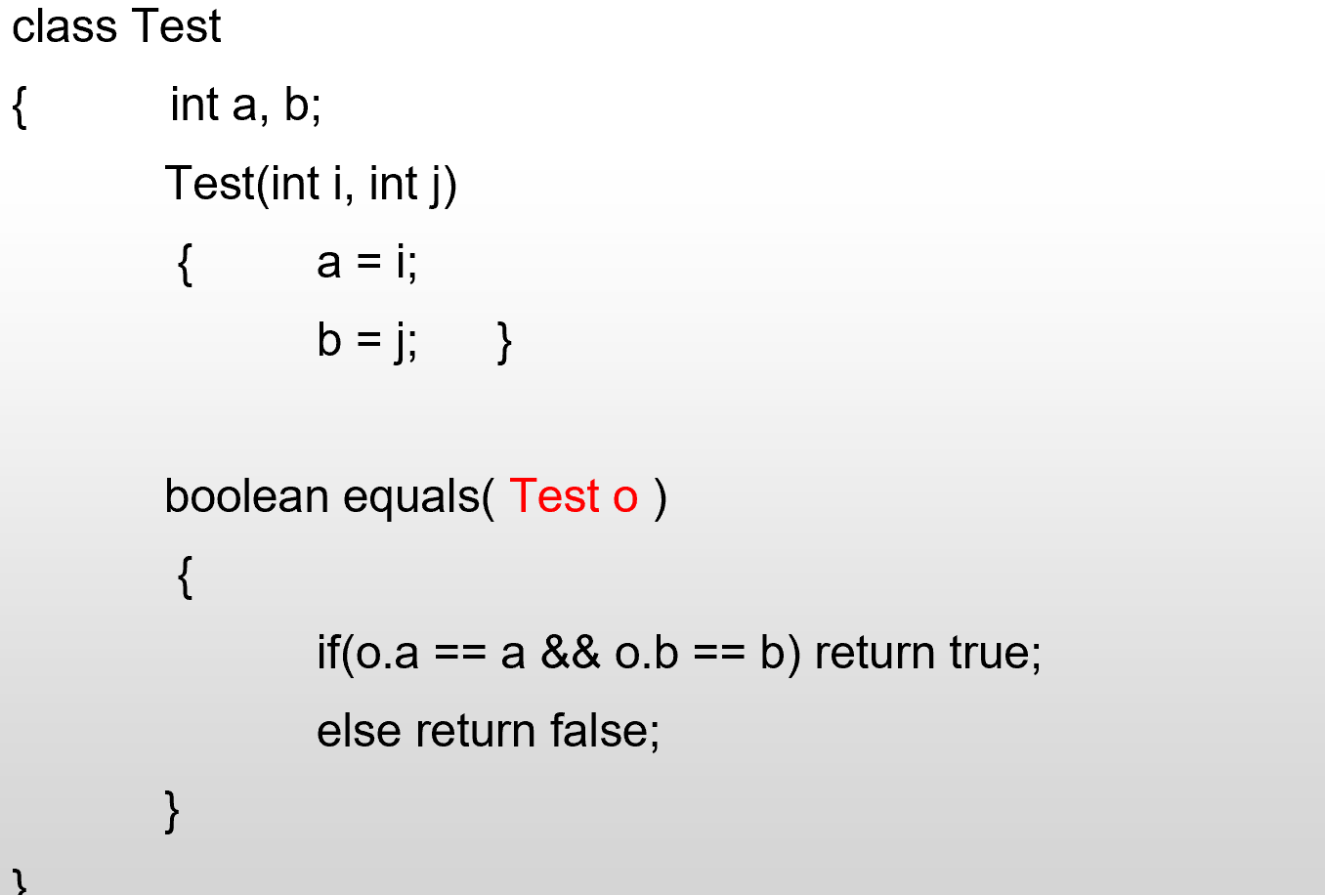
🡪having two or more constructors with the same (class)name but different signatures(parameters) is called constructor-overloading.

🡪example- different parameters for initializing different variables for different figures.

🡪elaborate later.

USING OBJECT AS A PARAMETER:

🡪example:

Text

Description automatically generated

Text

Description automatically generatedGraphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, chat or text message

Description automatically generated

RECURSION:

Text

Description automatically generated

USE OF ‘STATIC’ KEYWORD:

Graphical user interface, text, application, email

Description automatically generatedA screenshot of a conversation

Description automatically generated with low confidenceText

Description automatically generatedTable

Description automatically generatedGraphical user interface, text, application

Description automatically generatedText, table

Description automatically generatedText

Description automatically generated with medium confidenceText

Description automatically generated with medium confidence