UNIT-2

Abstract class in Java

* If a class contain any abstract method then the class is declared as abstract class.
* An abstract class is never instantiated(CANNOT CREATE OBJECT FOR ABSTRACT CLASS)|.
* It is used to provide abstraction.
* It can also have concrete method.
* A class that is declared as abstract is known as **abstract class**.

**Example:**

**abstract** **class** A{}

abstract method

|  |
| --- |
| A method that is declared as abstract and does not have implementation is known as abstract method. |

Example :

**abstract** **void** printStatus();//no body only declaration

Example of abstract class that has abstract method

In this example, Bike the abstract class that contains only one abstract method run.

The run() method’s implementation is provided by the Honda class.

**//Program for abstract class and methods**

**abstract** **class** Bike

{

**abstract** **void** run();

}

**class** Honda **extends** Bike

{

**void** run()

{

System.out.println("running safely..");

}

**public** **static** **void** main(String args[])

{

 Bike obj = **new** Honda();

 obj.run();

}

}

**OUTPUT:**

running safely..