

Day-11 JA111 Assignment

Q1) Define an interface X with:

- one abstract method
- one default method
- one static method

Define an interface Y with:

- one abstract method
- one default method
- one static method

Note: Use your own method name.

Define another interface Z which extends both the interfaces X and Y:
And place another abstract method inside this Z interface.

Create a class ZImpl as the implementation of the Z interface.
from the main method of the Demo class call the methods of interface X, Y, Z.

Note: default method of X should be overridden whereas the default method of Y should not be overridden inside the implementation class.

Q2) Create a Java class name Mobile with a single method “searchOutdatedModel()” that can accept the name of a Mobile company and any number of its model names.

Note: Use suitable argument for searchOutdatedModel method.

Note: The user can supply any number of model names, even the user can supply only the company name without its model also.

Mobile class has following instance variable-
`String[] outdatedModels = {"note4","note5","note6","note7"};`

If user supplied mobile model matches with any of the above outdated models, then print that model name postfix with OUTDATED word example(note4_OUTDATED).

Q3) Create an enum Stadium with the following names-

EDEN_GARDENS_STADIUM
WANKHEDE_STADIUM
CHIDAMBARAM_STADIUM
M_CHINNASWAMY_STADIUM

Now create a class IPL it will have a method-
`homeTeamStadium(Stadium stadium) : void`

inside this method switch on the Stadium enum and display the details of the Stadium.

Example:

If Stadium = EDEN_GARDENS_STADIUM then print “This is the home ground of KKR”

If Stadium = WANKHEDE_STADIUM then print “This is the home ground of Mumbai Indians”

If Stadium = CHIDAMBARAM_STADIUM then print “This is the home ground of CSK”

If Stadium = M_CHINNASWAMY_STADIUM then print “This is the home ground of RCB”

call the above **homeTeamStadium** method by taking the input Stadium name from the user using the Scanner class.