

Week 17 Tutorial

Question 1

1. Create an abstract class FirstYearCourse with the following methods:
 - abstract void printName()
 - abstract void printCode()
 - void printTotalWeeks() - print the total weeks in first year
2. Create a class Programming implementing the class FirstYearCourse with the following:
 - Implement all the abstract methods
 - main method()-
 - Create object of Programming class and call all the three methods

Question 2

1. Create an interface Messaging with the following methods:
 - public String getMessage()
 - public void print()
 - public String getRecipient()
 - default void printConnection() – print connection is successful

2. Create a class SMS implementing Messaging interface with the following methods:
 - public String getMessage () - Use scanner to take user input and return the value
 - public String getRecipient() - Use scanner to take user input for mobile number, return the value if the mobile number is valid else return message
 - public void print() - Call getMessage() and getRecipient() method and print the appropriate message

3. Create a class Email implementing Messaging interface with the following methods:
 - public String getMessage () - Use scanner to take user input and return the value
 - public String getRecipient() - Use scanner to take user input for email address, return the value
 - public void print() - Call getMessage() and getRecipient() method and print the appropriate message

4. Create a class MessagingService with the following:
 - Main method -
 - Create object of SMS and store it to the reference of Messaging class and then call printConnection () and print() methods
 - Create object of Email and store it to the reference of Messaging class and then call printConnection () and print() methods