Day 5

Question 1

Create the following two classes:

- **Mobile** (Super Class):
  - public Instance variables: price and color
  - Parameterized constructor (String color, double price) :
    - ♣ Assign the parameter value in instance variable color using this keyword
  - printInfo() – print the value of price and color
- **IPhone** (Sub Class of Mobile)
  - Instance variables: modelNo and storage
  - Parameterized constructor (String color, double price, String modelNo, double storage) :
    - ♣ Call super constructor by passing color and price as parameters
    - ♣ Assign the parameter's value in instance variables modelNo and Storage using this keyword
  - printInfo() – call super's printInfo() and then print the value of modelNo and storage
- **IPhonePro** (Sub Class of IPhone)
  - Instance variables: screenSize and discount
  - Parameterized constructor (String color, double price, String screenSize, double discount, String modelNo, double storage) :
    - ♣ Call super constructor by passing color, price, modelNo and storage as parameters
    - ♣ Assign the parameter's value in instance variables
  - printInfo() – call super's printInfo() and then print the value of screenSize and discount

In the main method, create an object of IPhonePro and then call printInfo() method.

Question 2

Create a program for Restaurant that takes user input for subtotal amount and then adds service charge and vat. Finally, prints the total amount.

Now, handle the situation when MyRestro does not want to add any service charge and vat to customers. (Use inheritance and method overriding concept)

Test Cases

- Create an object of Restaurant, input subtotal amount and print the total amount.
- Create an object of MyRestro, input subtotal amount and print the total amount.