**package** com.cts.without.optional;

**public** **class** ScreenResolution {

**private** **int** width;

**private** **int** height;

**public** ScreenResolution(**int** width, **int** height){

**this**.width = width;

**this**.height = height;

}

**public** **int** getWidth() {

**return** width;

}

**public** **int** getHeight() {

**return** height;

}

}

**===========================================================**

**package** com.cts.without.optional;

**public** **class** DisplayFeatures {

**private** String size; // In inches

**private** ScreenResolution resolution;

**public** DisplayFeatures(String size, ScreenResolution resolution){

**this**.size = size;

**this**.resolution = resolution;

}

**public** String getSize() {

**return** size;

}

**public** ScreenResolution getResolution() {

**return** resolution;

}

}

===========================================================

**package** com.cts.without.optional;

**public** **class** Mobile {

**private** **long** id;

**private** String brand;

**private** String name;

**private** DisplayFeatures displayFeatures;

// Like wise we can see MemoryFeatures, CameraFeatures etc.

**public** Mobile(**long** id, String brand, String name, DisplayFeatures displayFeatures){

**this**.id = id;

**this**.brand = brand;

**this**.name = name;

**this**.displayFeatures = displayFeatures;

}

**public** **long** getId() {

**return** id;

}

**public** String getBrand() {

**return** brand;

}

**public** String getName() {

**return** name;

}

**public** DisplayFeatures getDisplayFeatures() {

**return** displayFeatures;

}

}

=============================================================

**package** com.cts.without.optional;

**public** **class** MobileService {

**public** **int** getMobileScreenWidth(Mobile mobile){

**if**(mobile != **null**){

DisplayFeatures dfeatures = mobile.getDisplayFeatures();

**if**(dfeatures != **null**){

ScreenResolution resolution = dfeatures.getResolution();

**if**(resolution != **null**){

**return** resolution.getWidth();

}

}

}

**return** 0;

}

}

**===========================================================**

**package** com.cts.without.optional;

**public** **class** MobileTesterWithoutOptional {

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

ScreenResolution resolution = **new** ScreenResolution(750,1334);

DisplayFeatures dfeatures = **new** DisplayFeatures("4.7", resolution);

Mobile mobile = **new** Mobile(2015001, "Apple", "iPhone 6s", dfeatures);

MobileService mService = **new** MobileService();

**int** mobileWidth = mService.getMobileScreenWidth(mobile);

System.***out***.println("Apple iPhone 6s Screen Width = " + mobileWidth);

ScreenResolution resolution2 = **new** ScreenResolution(0,0);

DisplayFeatures dfeatures2 = **new** DisplayFeatures("0", resolution2);

Mobile mobile2 = **new** Mobile(2015001, "Apple", "iPhone 6s", dfeatures2);

**int** mobileWidth2 = mService.getMobileScreenWidth(mobile2);

System.***out***.println("Apple iPhone 16s Screen Width = " + mobileWidth2);

}

}

Implement getMobileScreenWidth() in Mobile service class using Optional class methods.