

JAVA ASSIGNMENT 3

Objective: learn the has-a relationship, Implementation of interface, Anonymous class and default method

1. Write a Java application that defines a TV class . The TV class two attributes the volume and channel. The member functions of TV class are voulmeUP, voulmeDown, channelPlus and channelMinus. Tv has a remote. Through the remote we change the volume and channel of the TV. Create TV object and through the remote we can control the TV.
2. Write a Java application that defines an interface called IOne. The interface Ione has the definition of two methods called f1(return type void) and f2 (return type string). Three clasees AOne, BOne and Cone implements the the Ione interface.
From the main function that defines in the class Implementation create the array that holds the three different child class object. Then using the array name call the f1 and f2 methods.
3. Write a Java application that defines an interface IOne. The IOne interface has display method with return type void and no argument. Implement the Interface using anonymous class.
4. There are two classes named college and student. Each student has roll, name, stream, admission year and marks. Each college has an id and college name. College has many students but a student can register his/her name only in one college. Write an application that creates the student object and add them to the college.
5. Suppose you have an application where two child classes Test1 and Test2 implement the function named func1 that was defined in the interface ITwo. But at the runtime it was identified that func1 causes a fatal exception that would crash the system. Now add a method func2 in the interface without affecting the implementation of the child class. Give a solution.