

Session – 4

1. The abstract Widget class has four concrete subclasses named WidgetA,WidgetB,WidgetC and WidgetD. Each of these four classes has a different mass in kilograms. The mass of any WidgetA object is 4 kilograms. The masses for WidgetB,WidgetC and WidgetD classes are 1,5,and 17 kilograms, respectively. Each Widget object has a string that identifies its color. Create six different widgets, and store them in a one-dimension array. Display the entries in the array and their total mass.
2. Write a java program to implement the concept of Inheritance to calculate the average marks of the student. Create the Parent Class named student, extend the child class Marks from student class to instantiate the data members namely, StuID, name. Create user defined display() method to display the results. Also create the third class average which extends student and Marks class to find the average for 5 subjects of decimal type.