PRACTICAL – 16

PROGRAM -1

Aim :- Write a program to explain concept of multilevel inheritance

CODE-

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| class Rectangle {  protected int len;  protected int wid;  public Rectangle(){  len = wid = 0;  }  public Rectangle(int x, int y){  len = x;  wid = y;  }  void show(){  System.out.println("Length: " + len + " meter");  System.out.println("Width: " + wid + " meter");  }  void area(){  System.out.println("Area: " + (len \* wid) + " meter square");  }  }  class Box extends Rectangle{  protected int height;  public Box(int len, int wid, int h){  super(len, wid);  height = h;  }  void show(){  super.show();  System.out.println("Height: " + height + " meter");  }  void volume(){  System.out.println("Volume: " + (len \* wid \* height) + " meter cube");  }  }  class BoxWeight extends Box{  int weight;  public BoxWeight(int len, int wid, int height, int w){  super(len, wid, height);  weight = w;  }  void show(){  super.show();  System.out.println("Weight: " + weight + " kilograms");  }  }  public class Main{  public static void main(String[] args) {  Rectangle R = new Rectangle(2, 3);  R.show();  System.out.println("");  Box B = new Box(21, 32, 10);  B.show();  System.out.println("");  BoxWeight Bw = new BoxWeight(11, 22, 33, 7);  Bw.show();  System.out.println("");  }  } |

OUTPUT-

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