& create a class Book which contains 4 members, tou name, author, nu police, num-pages, Include a constructor to set the values of the members. Include methods to set and get the details of the objects. Include a testing method that could display the compate details of the book. Develop a java program to create n book objects. import jo va. util Scanner; Class book Strong name-String author; flood price: int numipages; void set details!) Sconner Sc = new Sconner (System = m); System. out. pointln ( enter booknome, outhor, price, num - pages 4; nome = Sc. next (), gethor esc. next(); price = Sc. nextfloat(); rum\_pages = Sc. nextInt ();

vold get-details!) String deloils = tostring(); System. ow. println (details); public Storng to Storing () return " the book" + name + "was worten by "+ author+ " it consides of "+ num pagest pages and costs assourd + prive public static void main (string [ ) orge) Sconner scan = new Scanner (System .in); System . o w. point (n (" enter no of books you want to generate"); Int n = Scan next Int () book b[] = new book[n]: for (int 1 20; 120; 14) b(i) = new book () b[i]. set\_detaill); System out. pointle ("book details"); System. out. point (1); box (int 1:0; 141; 144) b[i] get details();

Algorithm
Start
Sept: Create a class book with members name, author, price and number of pages Step 2: get the details of the book through the method set details, accept values from the user Step 3: display the details of the book using to storing method Step 4: create a to storing method which would written the details of the book in one string Step 5: create the main class method now Step 6: ask the user for the number of books to be entered. Step 7: Create an array of type book consisting n books -Step 8: for " vanging from 0 to n initialize all the n books and set details of all the books individually. Step 9: Now for all books point the details of every book. Step 10: Stop

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of Dovelop a Javo program to create an abotrock closs named Shape that contains two Protegen and an empty method named printAxeo() Provide 3 dasses named Redargle, Trangle and Gride Such that each one of the douses extends the class Shape. Each one of the dosses contain only the method print Area! that points the assoc of the given shape Emport java, util. Scanner; abstract class shape. int xiyi abstract vold area(); public stative void main (Stringman) Shape obj1 = new Circle (); objl. area (); Shope obj2 = new Tolongle(); ob; 2. area(); Shape obj3 = neu Redargle (); ob 3. orea (). class Rectargle endends Shape System. ow. parhtle (" Enter longth and breadth of the rectangle");

Sconner Sc = new Sconner (system - 9n) ox = g. next Int (); y = scnex4 Int(). word public void areal) 2 System. out. position ( " The area of sectoralo is, xxy); } class Circle extends Shape & System. ow. printly & Enter radius of the circle 4): Sconner Sconner (System, Pn) of squeatont () y z x ; public void avea () System. out. pointin (4 & The area of Clarle is 3014+ x+y); } closs Tolonglo extends Shape System, out, pointer 6" Ender base and height of the Tolongle "); Sconner Sc = new Sconner (System. in) ox = Sc. next Out (); 4 = Sc. next Int();

public void avec () System. pid. poslidle 1 The area of Polarge is 0.5 x x x y); Algorithm Step1: OStart Step 2: Create on abstract class Shape App3: Initialize two integers Step 4: Initialize on abstract method area Step 5: create o class rectangle extending class Shape Step 6: Initialize value of x and y to r. Step 7: construct method area returning Step 8: Create a class circle extending class Rectangle Step 9. Instrairse value of x and y to Lordo Step 10: constand method alla returning xru Step 11: (route a dos trangle Step 12: Pritfalize value of x and y to bard h Step 13: point area = 12 bxh Step 19 5 Stop to/194

enter the radius of the circle area of circle is 3.14 enter the length and breadth of the rectangle area of rectangle is 4 enter the base and hieght of the triangle area of triangle is 2.0

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