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|  | Area Of Shapes  import java.util.\*;  abstract class a{ |
|  | double x,y; |
|  | a(double i,double j){ |
|  | x=i;y=j; |
|  |  |
|  | } |
|  | abstract double area(); |
|  | } |
|  |  |
|  |  |
|  |  |
|  | class rect extends a{ |
|  | rect(double i,double j){ |
|  | super(i,j); |
|  | } |
|  | double area(){ |
|  | return x\*y; |
|  | } |
|  | } |
|  |  |
|  | class tri extends a{ |
|  | tri(double i,double j){ |
|  | super(i,j); |
|  | } |
|  | double area(){ |
|  | return 0.5\*x\*y; |
|  | } |
|  | } |
|  |  |
|  | class cir extends a{ |
|  | cir(double i){ |
|  | super(i,i); |
|  | } |
|  | double area(){ |
|  | return 3.14\*x\*y; |
|  | } |
|  | } |
|  |  |
|  | class area{ |
|  | public static void main(String args[]){ |
|  | Scanner sc=new Scanner(System.in); |
|  |  |
|  | System.out.println("Enter the length and breadth of rectangle:"); |
|  | double l=sc.nextInt(); |
|  | double b=sc.nextInt(); |
|  |  |
|  | System.out.println("Enter the height and base of triangle:"); |
|  | double h=sc.nextInt(); |
|  | double ba=sc.nextInt(); |
|  |  |
|  | System.out.println("Enter the radius of circle:"); |
|  | double ra=sc.nextInt(); |
|  |  |
|  | rect r=new rect(l,b); |
|  | tri t=new tri(h,ba); |
|  | cir c=new cir(ra); |
|  |  |
|  | System.out.println("Area of rectangle is " +r.area()); |
|  | System.out.println("Area of triangle is " +t.area()); |
|  | System.out.println("Area of circle is " +c.area()); |
|  | } |
|  | } |

