

23 - Notepad

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```
/*Develop a Java program to create an abstract class named Shape that contains  
two integers and  
an empty method named printArea(). Provide three classes named Rectangle,  
Triangle and  
Circle such that each one of the classes extends the class Shape. Each one of the  
classes contain  
only the method printArea() that prints the area of the given Shape.  
*/
```

```
abstract class Shape  
{  
    int a=3;  
    int b=4;  
    abstract public void print_area();  
}  
class rectangle extends Shape  
{  
    public int area_rect;  
    @Override  
    public void print_area()  
    {  
        area_rect=a*b;  
        System.out.println("The area of rectangle is:"+area_rect);  
    }  
}  
class triangle extends Shape  
{  
    int area_tri;  
    @Override  
    public void print_area()  
    {  
        area_tri=(int)(0.5*a*b);  
        System.out.println("The area of triangle is:"+area_tri);  
    }  
}  
class circle extends Shape  
{  
    int area_circle;  
    @Override  
    public void print_area()  
    {  
        area_circle=(int)(3.14*a*a);  
        System.out.println("The area of circle is:"+area_circle);  
    }  
}
```

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```
abstract public void print_area();
}
class rectangle extends Shape
{
public int area_rect;
@Override
public void print_area()
{
area_rect=a*b;
System.out.println("The area of rectangle is:"+area_rect);
}
}
class triangle extends Shape
{
int area_tri;
@Override
public void print_area()
{
area_tri=(int)(0.5*a*b);
System.out.println("The area of triangle is:"+area_tri);
}
}
class circle extends Shape
{
int area_circle;
@Override
public void print_area()
{
area_circle=(int)(3.14*a*a);
System.out.println("The area of circle is:"+area_circle);
}
}
class abs{
public static void main(String[]args){
rectangle rec = new rectangle();
rec.print_area();
triangle tri = new triangle();
tri.print_area();
circle cir=new circle();
cir.print_area();
}
}
<
```

Command Prompt

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C:\Users\priya>cd desktop

C:\Users\priya\Desktop>cd java

C:\Users\priya\Desktop\java>javac 23.java

C:\Users\priya\Desktop\java>java abs

the area of rectangle is:12

the area of triangle is:6

the area of circle is:28

C:\Users\priya\Desktop\java>_