## First Page: Interface

```
assignment4 > 🔳 interface_assignment4_dc128280_YangYishu.java > 😭 test > 🕅 main(String[])
       import java.lang.*;
       /**general case of interface involve area */
       interface CArea{
           double pi = 3.141592653;
           double calc(double x,double y);
       class rect implements CArea{
           public double calc(double x,double y){
               return x*y;
       class circle implements CArea{
           public double calc(double x, double y){
               return pi*x*x;
       class test{
           public static void main(String arg[]){
               circle c = new circle();
               rect r = new rect();
               System.out.println("Area of the circle is "+c.calc(x: 10, y: 10));
               System.out.println("Area of the rectangle is "+r.calc(x: 20, y: 15));
Windows PowerShell
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安装最新的 PowerShell, 了解新功能和改进! https://aka.ms/PSWindows
PS C:\Users\YangYiShu\Desktop\lab> & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessa
ges' '-cp' 'C:\Users\YangYiShu\AppData\Roaming\Code\User\workspaceStorage\6aeb430d872b6397bdb46c8dad065ba9\redhat.java\jdt_ws
\lab 2d64457b\bin' 'test
Area of the circle is 314.1592653> c:; cd 'c:\Users\YangYiShu\Desktop\lab'; & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.e
xe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\YangYiShu\AppData\Roaming\Code\User\workspaceStorage\6aeb430d87
2b6397bdb46c8dad065ba9\redhat.java\jdt ws\lab 2d64457b\bin' 'test'
Area of the circle is 314.1592653
Area of the rectangle is 300.0
PS C:\Users\YangYiShu\Desktop\lab>
```

## Next Page: Abstract

```
C: > Users > YangYiShu > Desktop > lab > assignment4 > 🔳 abstract_assignment4_dc128280_YangYishu.java > ધ Area
      import java.lang.Math;
       {abstract void area();
     v class Rect extends Total{
       double w=345.67544, h=1214234.54367;
    void area()
        area = w*h;
        System.out.println("area of Rectangle -->"+area);
       double r=5.432;
       void area()
        area = Math.PI * r * r;
        System.out.println("area of Circle -->"+area);
     ∨ class Area
      public static void main(String [] args)
        r.area();
        c.area();
 Windows PowerShell
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 安装最新的 PowerShell, 了解新功能和改进! https://aka.ms/PSWindows
 PS C:\Users\YangYiShu> & 'C:\Program Files\Java\jdk-17.0.4.1\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Y
 area of Rectangle -->4.197310601463265E8
 area of Circle -->92.69779319063629
 PS C:\Users\YangYiShu>
```