AbstractAreas - Notepad

File Edit Format View Help

```
abstract class Shape{
int dim1;
int dim2;
Shape(int a,int b){
dim1=a;
dim2=b;
}
abstract int printArea();
}
class Rectangle extends Shape{
Rectangle(int a,int b){
super(a,b);
}
int printArea(){
System.out.println("Inside Area for Rectangle.");
return dim1*dim2;
}
}
class Triangle extends Shape{
Triangle(int a,int b){
super(a,b);
}
int printArea(){
System.out.println("Inside Area for Triangle.");
return dim1*dim2/2;
}
}
class Circle extends Shape{
Circle(int a,int b){
super(a,b);
}
int printArea(){
System.out.println("Inside Area for Circle.");
```

```
return 22/7*dim1*dim1;
}
}
class AbstractAreas{
public static void main(String args[]){
Rectangle r=new Rectangle(10,10);
Triangle t=new Triangle(4,5);
Circle c=new Circle(4,0);
Shape s;
s=r;
System.out.println("Area is"+s.printArea());
s=t;
System.out.println("Area is"+s.printArea());
s=c;
System.out.println("Area is"+s.printArea());
}
}
```

```
C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>javac AbstractAreas.java

C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>java  AbstractAreas
Inside Area for Rectangle.
Area is100
Inside Area for Triangle.
Area is10
Inside Area for Circle.
Area is48

C:\Users\Sanny\Desktop\San\3rd Semester\OOJ>
```