LAB 6: ABSTRACT CLASS IN JAVA

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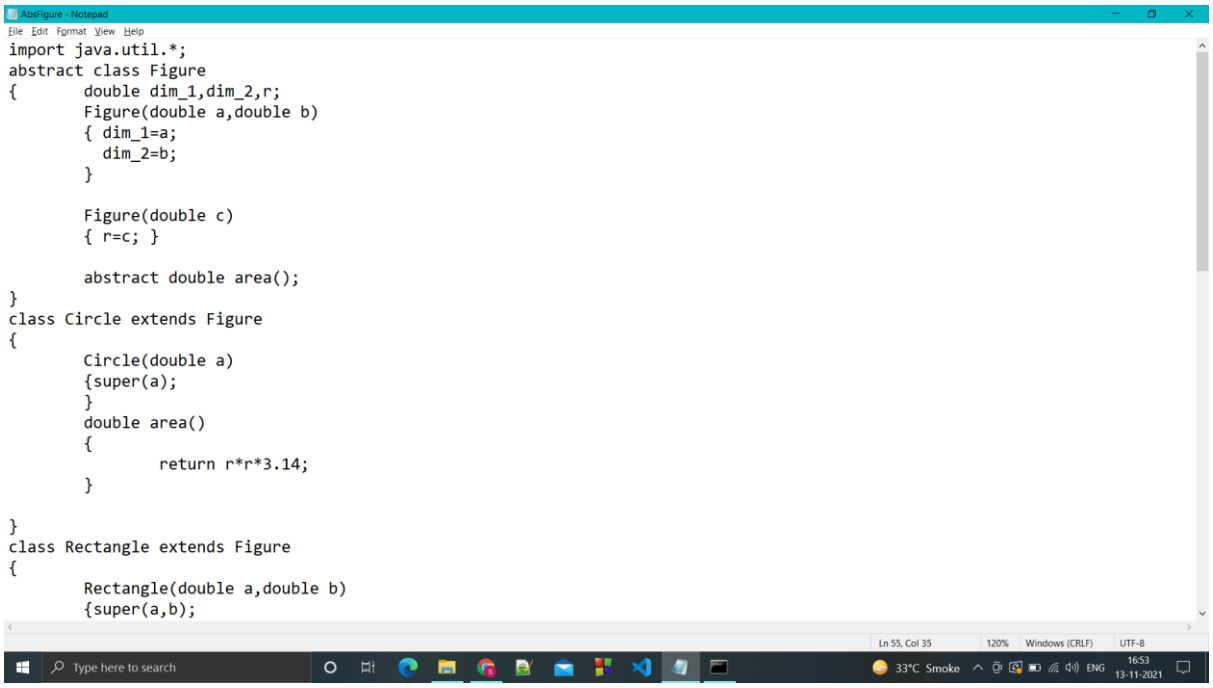
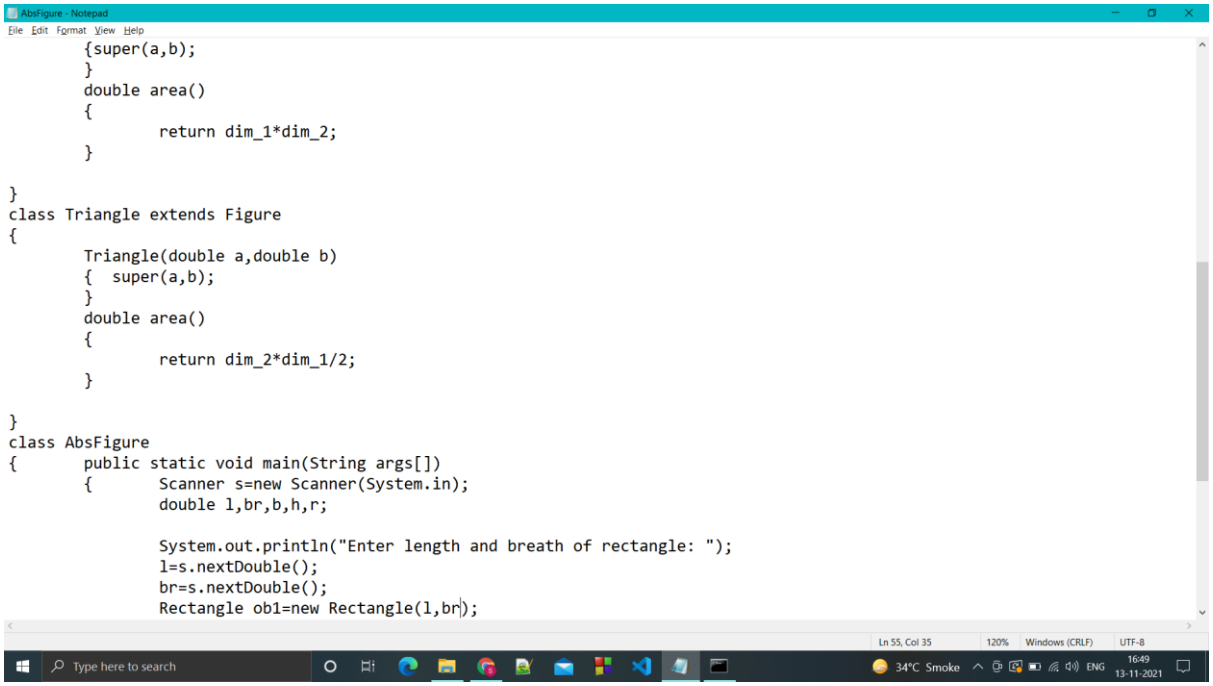
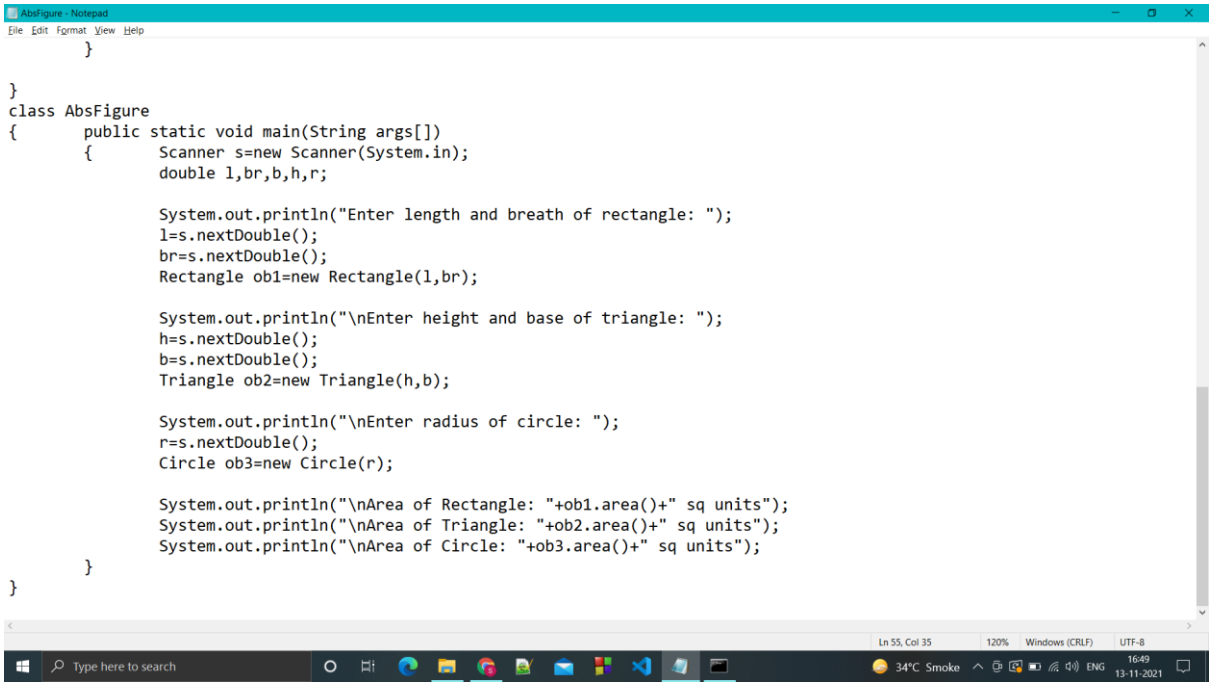
Q .1 Take a class called Figure consisting of abstract method area(). Inherit this figure class through various other classes like Circle, Rectangle and Triangle which will redefine the function called area() as per the required formula.

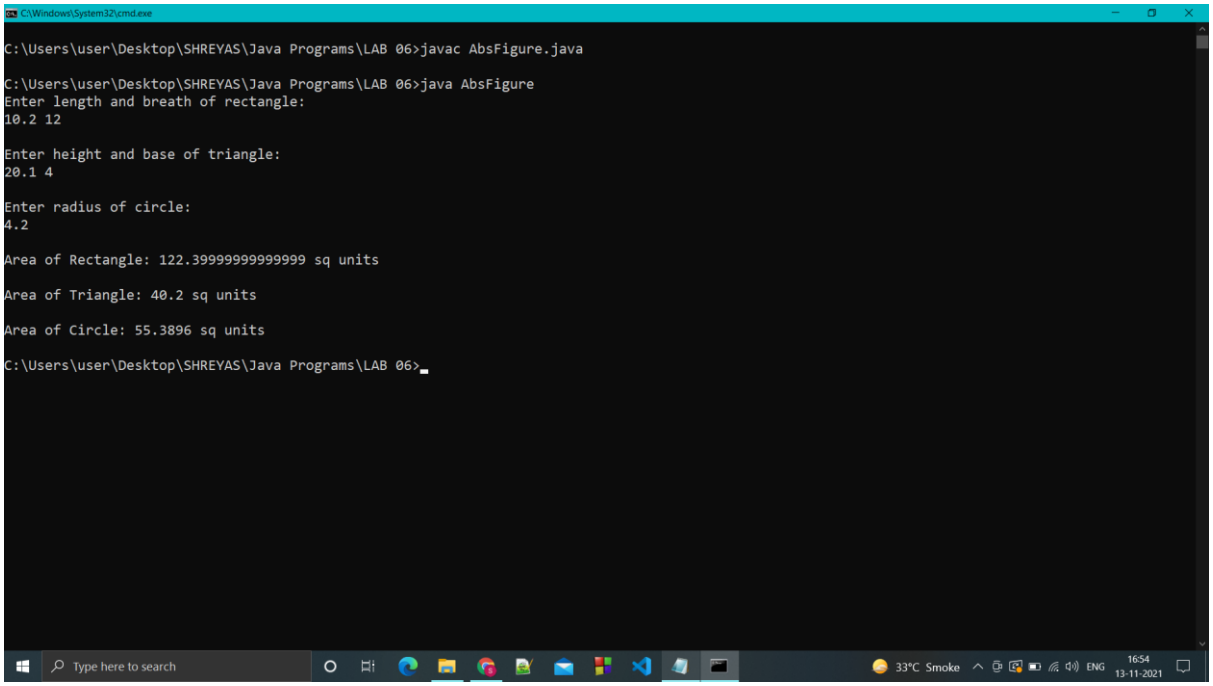
CODE:






AbsFigure - Notepad
File Edit Format View Help
}
}
class AbsFigure
{ public static void main(String args[])
{ Scanner s=new Scanner(System.in);
double l,br,b,h,r;
System.out.println("Enter length and breath of rectangle: ");
l=s.nextDouble();
br=s.nextDouble();
Rectangle ob1=new Rectangle(l,br);
System.out.println("\nEnter height and base of triangle: ");
h=s.nextDouble();
b=s.nextDouble();
Triangle ob2=new Triangle(h,b);
System.out.println("\nEnter radius of circle: ");
r=s.nextDouble();
Circle ob3=new Circle(r);
System.out.println("\nArea of Rectangle: "+ob1.area()+" sq units");
System.out.println("\nArea of Triangle: "+ob2.area()+" sq units");
System.out.println("\nArea of Circle: "+ob3.area()+" sq units");
}
}
Ln 55, Col 35
120%
Windows (CRLF)
UTF-8
Type here to search
34°C Smoke
ENG
16:49
13-11-2021

OUTPUT:


C:\Windows\System32\cmd.exe
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 06>javac AbsFigure.java
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 06>java AbsFigure
Enter length and breath of rectangle:
10.2 12
Enter height and base of triangle:
20.1 4
Enter radius of circle:
4.2
Area of Rectangle: 122.39999999999999 sq units
Area of Triangle: 40.2 sq units
Area of Circle: 55.3896 sq units
C:\Users\user\Desktop\SHREYAS\Java Programs\LAB 06>
Type here to search
33°C Smoke
ENG
16:54
13-11-2021