

```

/*abstract class (cal area s c)*/
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;

abstract class Shape
{
    abstract public void area(int a) throws IOException;
}

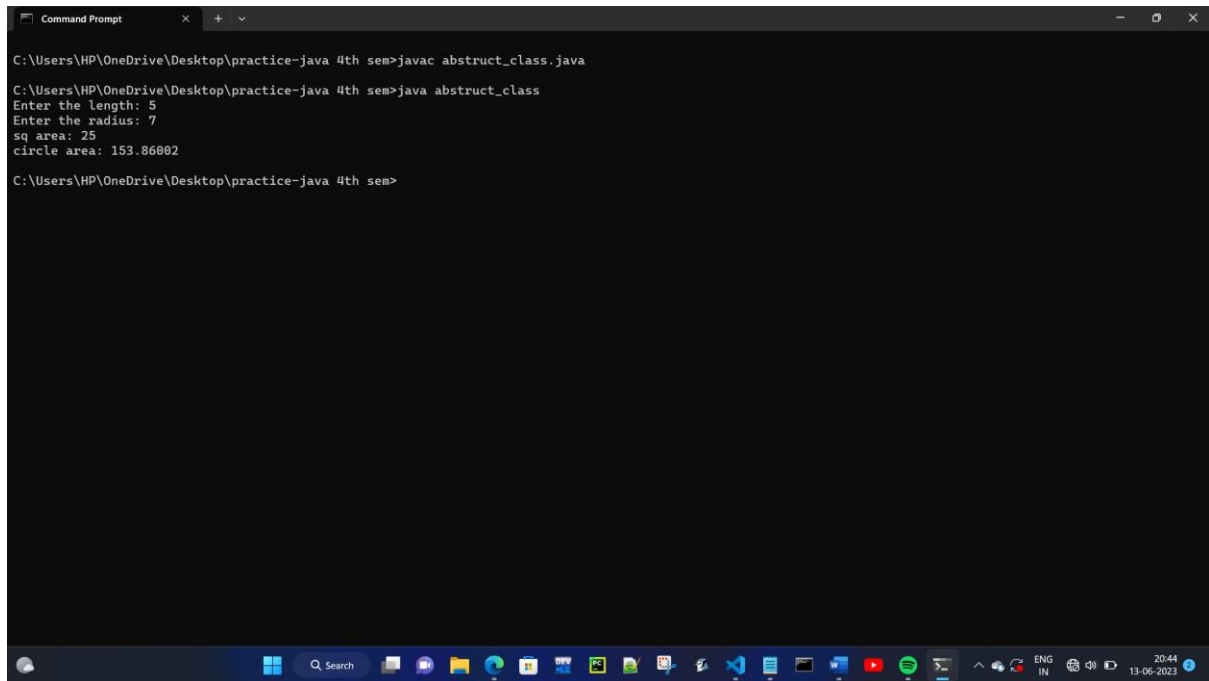
class Square extends Shape
{
    public void area(int l){
        System.out.println("sq area: "+l*l);
    }
}

class Circle extends Shape
{
    public void area(int r)
    {
        System.out.println("circle area: "+3.14f*r*r);
    }
}

public class abstract_class {
    public static void main(String[] args) throws IOException{
        BufferedReader br = new BufferedReader((new
        InputStreamReader(System.in)));
        System.out.print("Enter the length: ");
        int l = Integer.parseInt(br.readLine());
        System.out.print("Enter the radius: ");
        int r = Integer.parseInt(br.readLine());
        Square s1 = new Square();
        s1.area(l);
    }
}

```

```
Circle c1 = new Circle();  
c1.area(r);  
}  
}
```



The screenshot shows a Windows Command Prompt window with the following text:

```
C:\Users\HP\OneDrive\Desktop\practice-java 4th sem>javac abstract_class.java  
C:\Users\HP\OneDrive\Desktop\practice-java 4th sem>java abstract_class  
Enter the length: 5  
Enter the radius: 7  
sq area: 25  
circle area: 153.86002  
C:\Users\HP\OneDrive\Desktop\practice-java 4th sem>
```

The window title is "Command Prompt". The taskbar at the bottom shows various application icons, including the Start button, Search, File Explorer, Edge, and several other background applications. The system clock in the bottom right corner indicates the time is 20:44 on 13-06-2023, with the language set to ENG IN.