**National Vocational & Technical Training Commission (NAVTTC)**

**Name: Muhammad Saad**

**CNIC: 11201-3611172-5**

**Trade: Mobile App Development**

**Test Date: 10/06/2024**

**Test Center: University of Engineering and Technology Peshawar**

**Examiner Name: Tiham Khan / Muhammad Nouman**

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Q1: **Shape Hierarchy Define an abstract class “Shape” with an abstract method “calculateArea”. Create subclass “Circle” and “Rectangle” that inherits from “Shape” and implements the method to calculate area.**

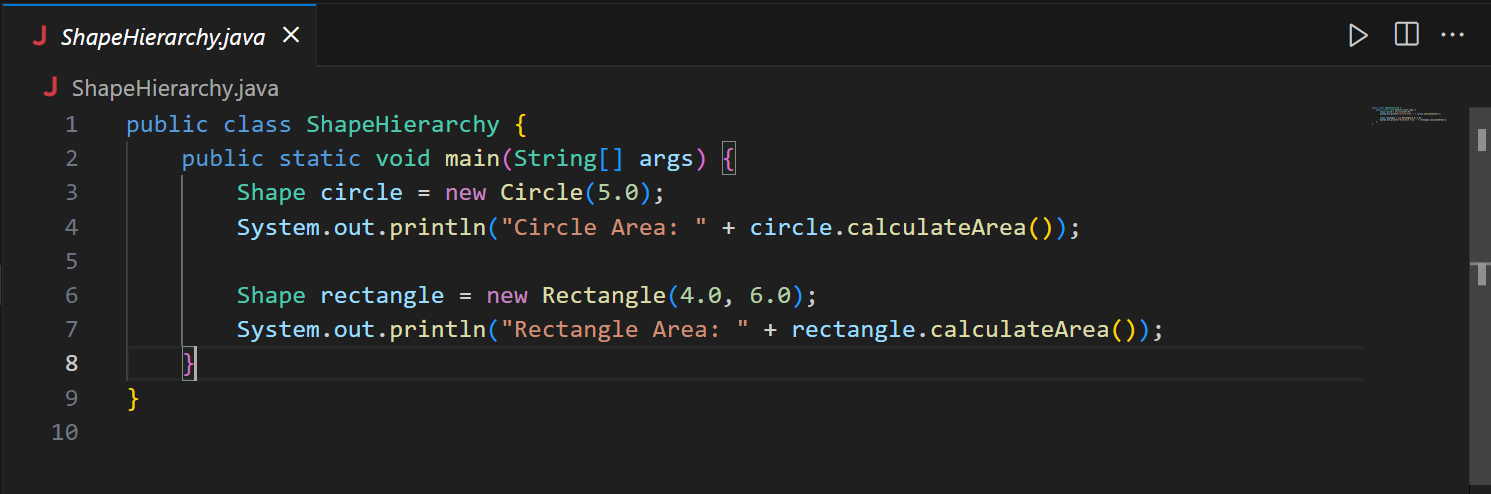


Fig 01: ShapeHierarchy class

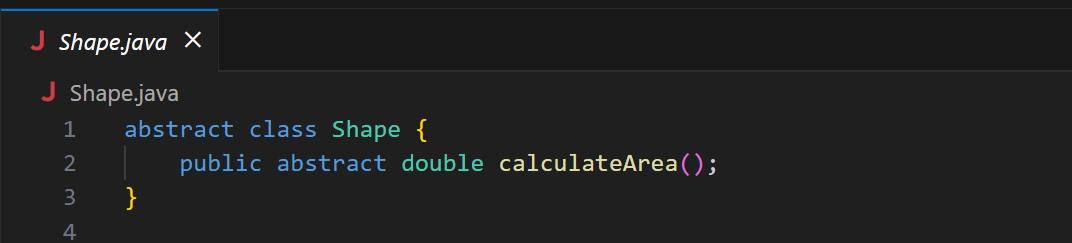


Fig 02: Abstract class Shape

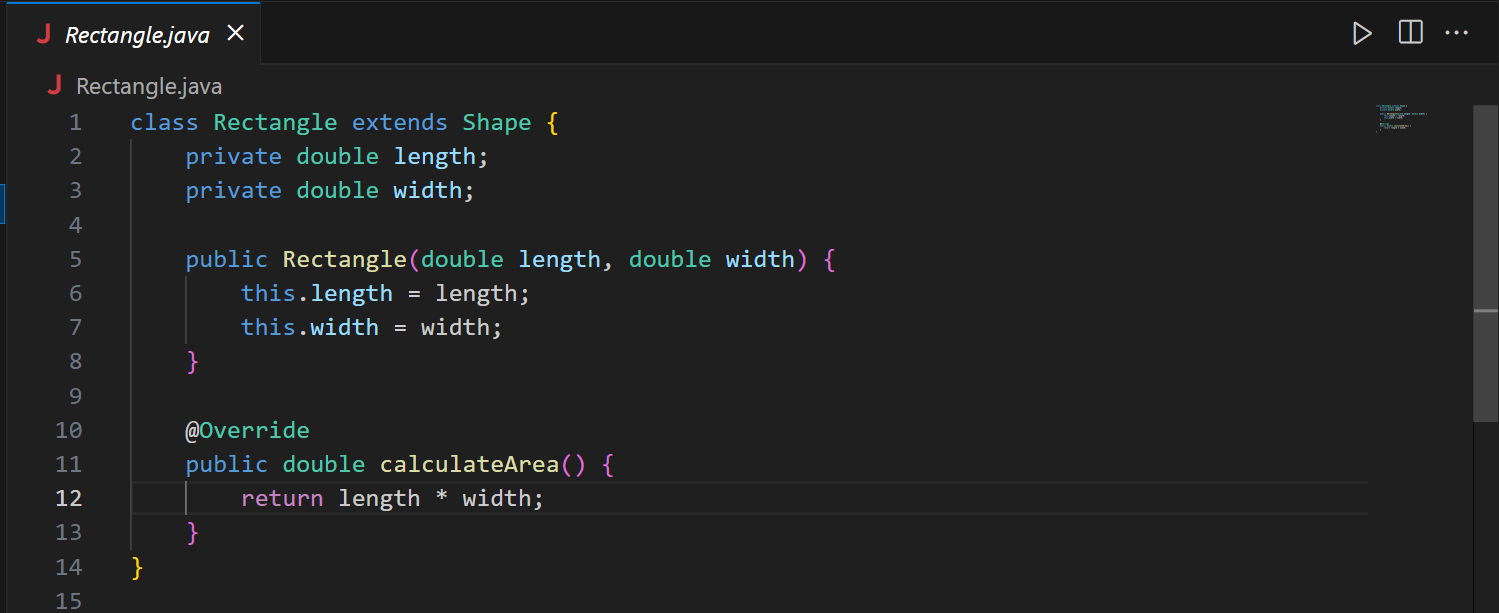


Fig 03: Rectangle class

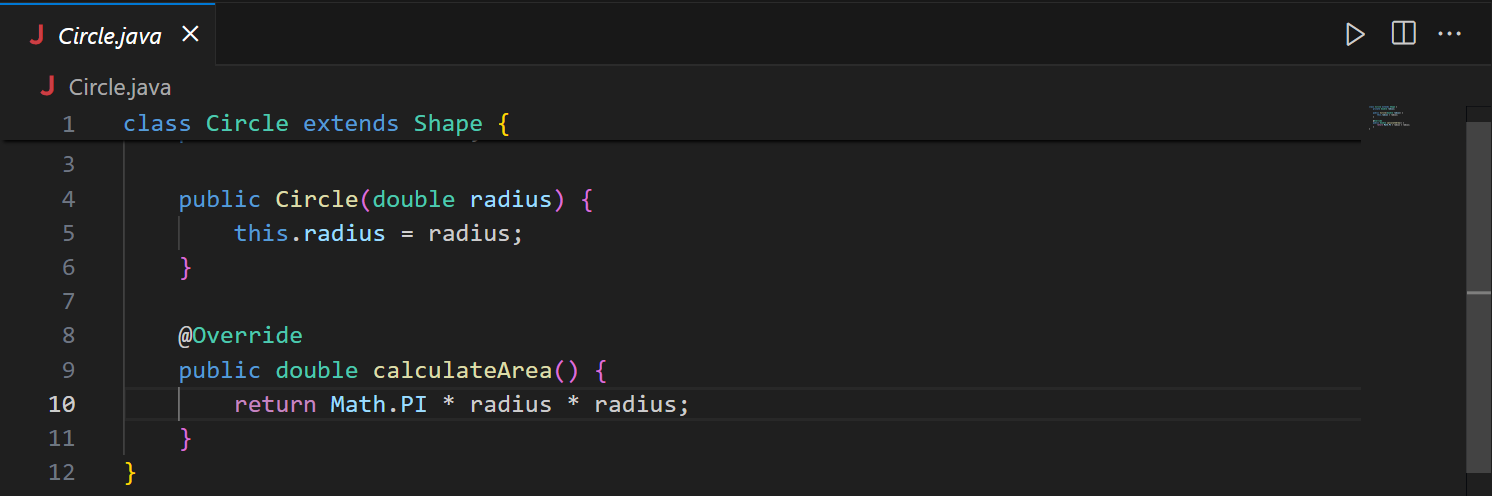


Fig 04: Circle class

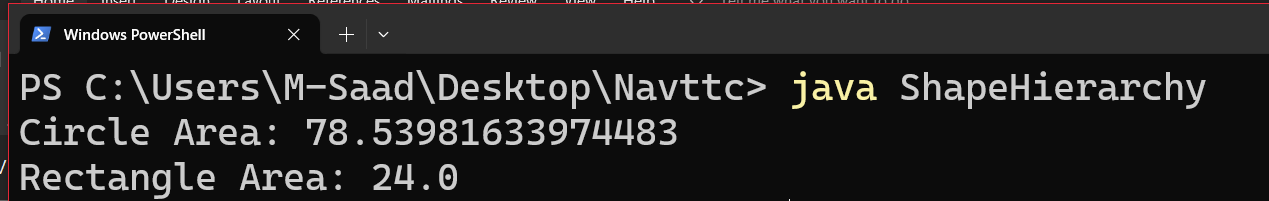


Fig 05: Output Screen Shot

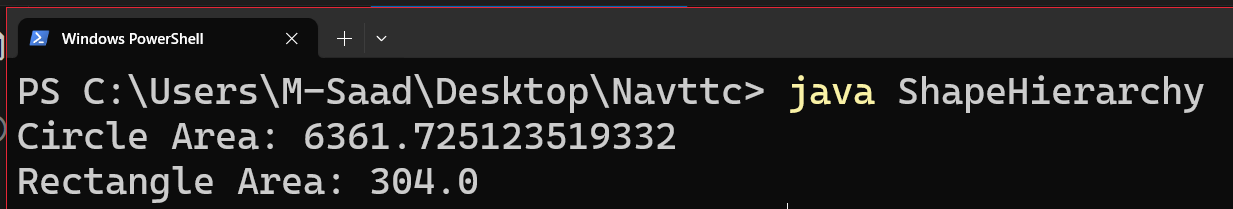


Fig 06: Output with different values

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