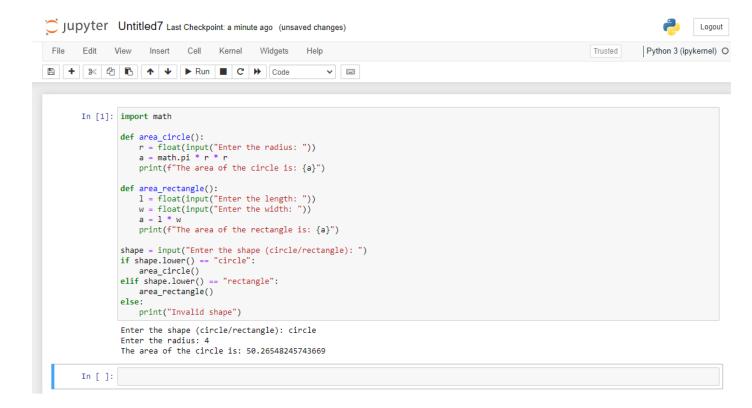
AREA OF A SHAPE ASSIGNMENT



```
import java.util.Scanner;
           Run main | Debug main
public static void main(String[] args) {
                Scanner scanner = new Scanner(System.in);
                System.out.println("Enter the shape (circle/rectangle): ");
                String shape = scanner.nextLine();
                if (shape.equalsIgnoreCase("circle")) {
                    System.out.print("Enter the radius: ");
                    double r = scanner.nextDouble();
double a = Math.PI * r * r;
                    System.out.printf("The area of the circle is: %.2f%n", a);
                } else if (shape.equalsIgnoreCase("rectangle")) {
   System.out.print("Enter the length: ");
                    double 1 = scanner.nextDouble();
                    System.out.print("Enter the width: ");
                    double w = scanner.nextDouble();
                    System.out.printf("The area of the rectangle is: %.2f%n", a);
                    System.out.println("Invalid shape");
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS
 circle
> Please start a debug session to evaluate expressions
```

```
Desktop > G math3.cpp > 分 main()
  #include <iostream>
       #include <cmath>
      void area_circle() {
          double r, a;
std::cout << "Enter the radius: ";</pre>
           std::cin >> r;
a = M_PI * r * r;
           std::cout << "The area of the circle is: " << a << std::endl;</pre>
      void area_rectangle() {
           std::cout << "Enter the length: ";</pre>
           std::cin >> 1;
std::cout << "Enter the width: ";</pre>
           std::cout << "The area of the rectangle is: " << a << std::endl;</pre>
       int main() {
           std::string shape;
           std::cout << "Enter the shape (circle/rectangle): ";</pre>
           std::cin >> shape;
           if (shape == "circle" || shape == "Circle") {
           area_circle();
} else if (shape == "rectangle" || shape == "Rectangle") {
               area_rectangle();
               std::cout << "Invalid shape" << std::endl;</pre>
```