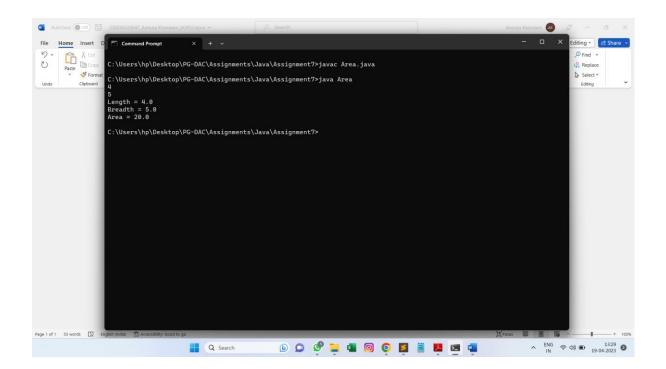
230350320047_Amruta Khandare_OOPS6

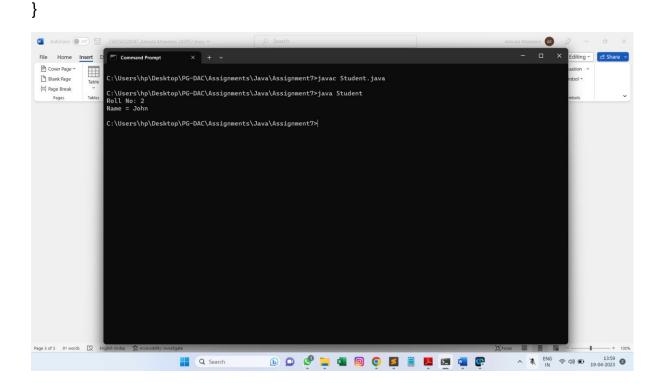
```
Q1:
```

```
import java.util.Scanner;
public class Area{
      Scanner sc = new Scanner(System.in);
      double length = sc.nextDouble();
      double breadth = sc.nextDouble();
      public void setDim(){
      System.out.println("Length = "+length);
      System.out.println("Breadth = "+breadth);
      }
      public void getArea(){
            System.out.println("Area = "+length*breadth);
      }
      public static void main(String[] args) {
            Area a = new Area();
            a.setDim();
            a.getArea();
      }
}
```



```
Q2:
```

```
public class Student{
    String name;
    int roll_no;
    public void printDetails(){
        System.out.println("Roll No: "+roll_no);
        System.out.println("Name = "+name);
    }
    public static void main(String[] args) {
        Student s1 = new Student();
        s1.roll_no = 2;
        s1.name = "John";
        s1.printDetails();
}
```

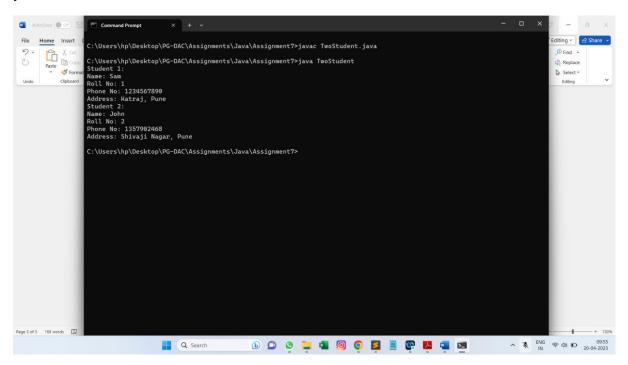


```
public class TwoStudent{
      String name;
      int roll no;
      int phone no;
      String address;
      public void printDetails(){
            System.out.println("Name: "+name);
            System.out.println("Roll No: "+roll no);
            System.out.println("Phone No: "+phone_no);
            System.out.println("Address: "+address);
      }
      public static void main(String[] args) {
            TwoStudent sam = new TwoStudent();
            TwoStudent john = new TwoStudent();
            sam.name = "Sam";
            sam.roll no = 1;
            sam.phone no = 1234567890;
            sam.address = "Katraj, Pune";
            john.name = "John";
            john.roll_no = 2;
            john.phone_no = 1357902468;
            john.address = "Shivaji Nagar, Pune";
            System.out.println("Student 1:");
            sam.printDetails();
            System.out.println("Student 2:");
```

```
john.printDetails();
```

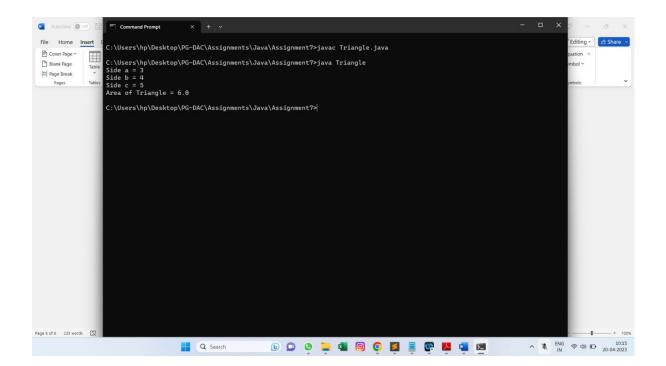
}

}



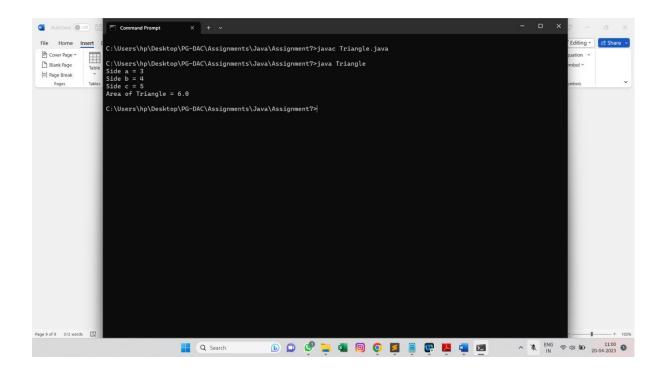
```
Q4:
```

```
import static java.lang.Math.sqrt;
public class Triangle{
      int a;
      int b;
      int c;
      double s;
      double ar;
      public void area(){
             System.out.println("Side a = "+a);
             System.out.println("Side b = "+b);
             System.out.println("Side c = "+c);
             s = (a+b+c)/2.0;
             ar = Math.sqrt(s*(s-a)*(s-b)*(s-c));
             System.out.println("Area of Triangle = "+ar);
      }
      public static void main(String[] args) {
             Triangle t1 = new Triangle();
             t1.a = 3;
             t1.b = 4;
             t1.c = 5;
             t1.area();
      }
}
```



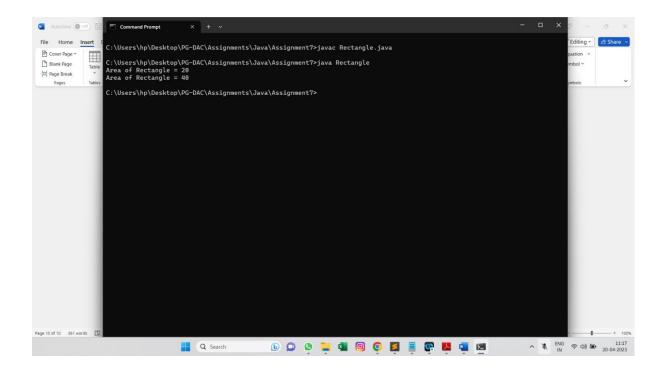
```
Q5:
```

```
import static java.lang.Math.sqrt;
public class Triangle{
      int a;
      int b;
      int c;
      double s;
      double ar;
      public Triangle(int a, int b, int c){
             this.a = a;
             this.b = b;
             this.c = c;
      }
      public void area(){
             System.out.println("Side a = "+a);
             System.out.println("Side b = "+b);
             System.out.println("Side c = "+c);
             s = (a+b+c)/2.0;
             ar = Math.sqrt(s*(s-a)*(s-b)*(s-c));
             System.out.println("Area of Triangle = "+ar);
      }
      public static void main(String[] args) {
             Triangle t1 = new Triangle(3, 4, 5);
             t1.area();
      }
}
```

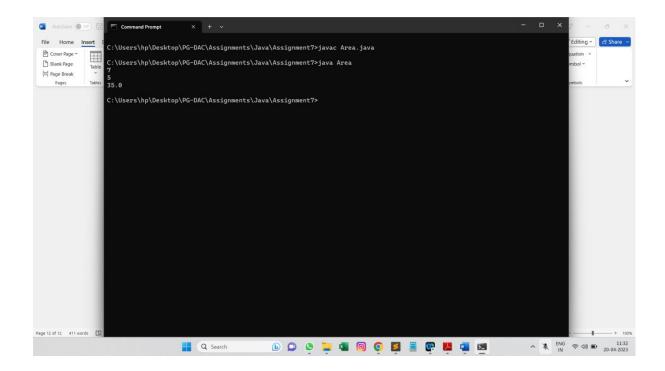


```
Q6:
```

```
public class Rectangle{
      int a;
      int b;
      public Rectangle(int a, int b){
             this.a = a;
             this.b = b;
      }
      public void area(){
             System.out.println("Area of Rectangle = "+a*b);
      }
      public static void main(String[] args) {
             Rectangle r1 = new Rectangle(4,5);
             Rectangle r2 = new Rectangle(5,8);
             r1.area();
             r2.area();
      }
}
```

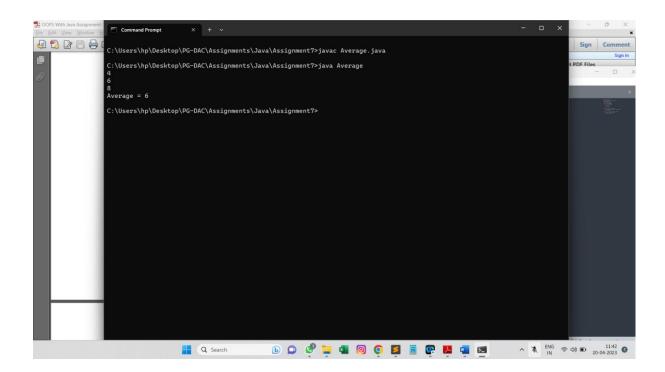


```
Q7:
import java.util.Scanner;
import java.util.Scanner;
public class Area{
      Scanner sc = new Scanner(System.in);
      double a = sc.nextDouble();
      double b = sc.nextDouble();
      public void area(){
            this.a = a;
            this.b = b;
      }
      public void returnArea(){
            System.out.println(a*b);
      }
      public static void main(String[] args) {
            Area ar1 = new Area();
            ar1.returnArea();
      }
}
```



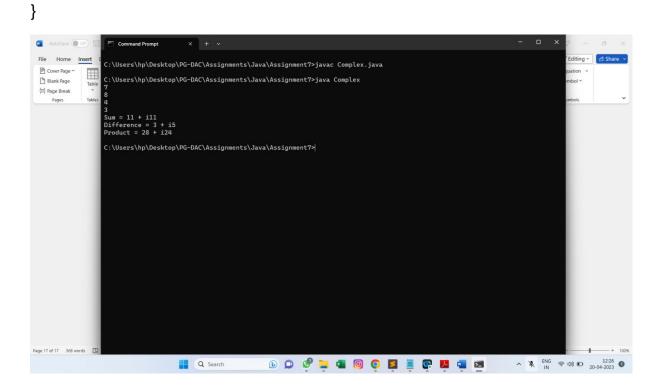
```
Q8:
```

```
import java.util.Scanner;
public class Average{
      Scanner sc = new Scanner(System.in);
      double average;
      int a = sc.nextInt();
      int b = sc.nextInt();
      int c = sc.nextInt();
      public void Average(){
             this.a = a;
             this.b = b;
             this.c = c;
      }
      public double printAverage(){
             System.out.println((a+b+c)/3);
             return average;
      }
      public static void main(String[] args) {
             Average a1 = new Average();
             a1.printAverage();
      }
}
```



```
Q9:
import java.util.Scanner;
public class Complex{
      Scanner sc = new Scanner(System.in);
      int real1 = sc.nextInt();
      int imaginary1 = sc.nextInt();
      int real2 = sc.nextInt();
      int imaginary2 = sc.nextInt();
      public void Complex(){
             this.real1 = real1;
             this.imaginary1 = imaginary1;
             this.real2 = real2;
             this.imaginary2 = imaginary2;
      }
      public void sum(){
             System.out.println("Sum = "+(real1+real2) + " + i" +
(imaginary1+imaginary2));
      }
      public void difference(){
             System.out.println("Difference = "+(real1-real2) + " + i" +
(imaginary1-imaginary2));
```

```
public static void main(String[] args) {
    Complex c1 = new Complex();
    c1.sum();
    c1.difference();
    c1.product();
}
```



```
Q10:
public class Employee{
      String name;
      int year;
      String address;
      public Employee(String name, int year, String address){
            this.name = name;
            this.year = year;
            this.address = address;
      }
      public void printInfo(){
            System.out.print(name);
            System.out.print(year);
            System.out.print(address);
            System.out.println();
      }
      public static void main(String[] args) {
                                                       ", 1994, "
            Employee e1 = new Employee("Robert
      64C - WallsStreat");
            Employee e2 = new Employee("Sam ", 2000, "
                                                                    68D -
WallsStreat");
            Employee e3 = new Employee("John ", 1999, "
                                                                    26B -
WallsStreat");
            System.out.println("Name Year of Join Address");
            e1.printlnfo();
```

```
e2.printInfo();
e3.printInfo();
}
```

