JAVA LAB - 08 - Interface

Program 1:

```
C:\Users\Admin\Desktop\cs065>java Demo
implementation of method1
```

Program 2:

```
C:\Users\Admin\Desktop\cs065>java Main
Dog barks
Dog eats bones
```

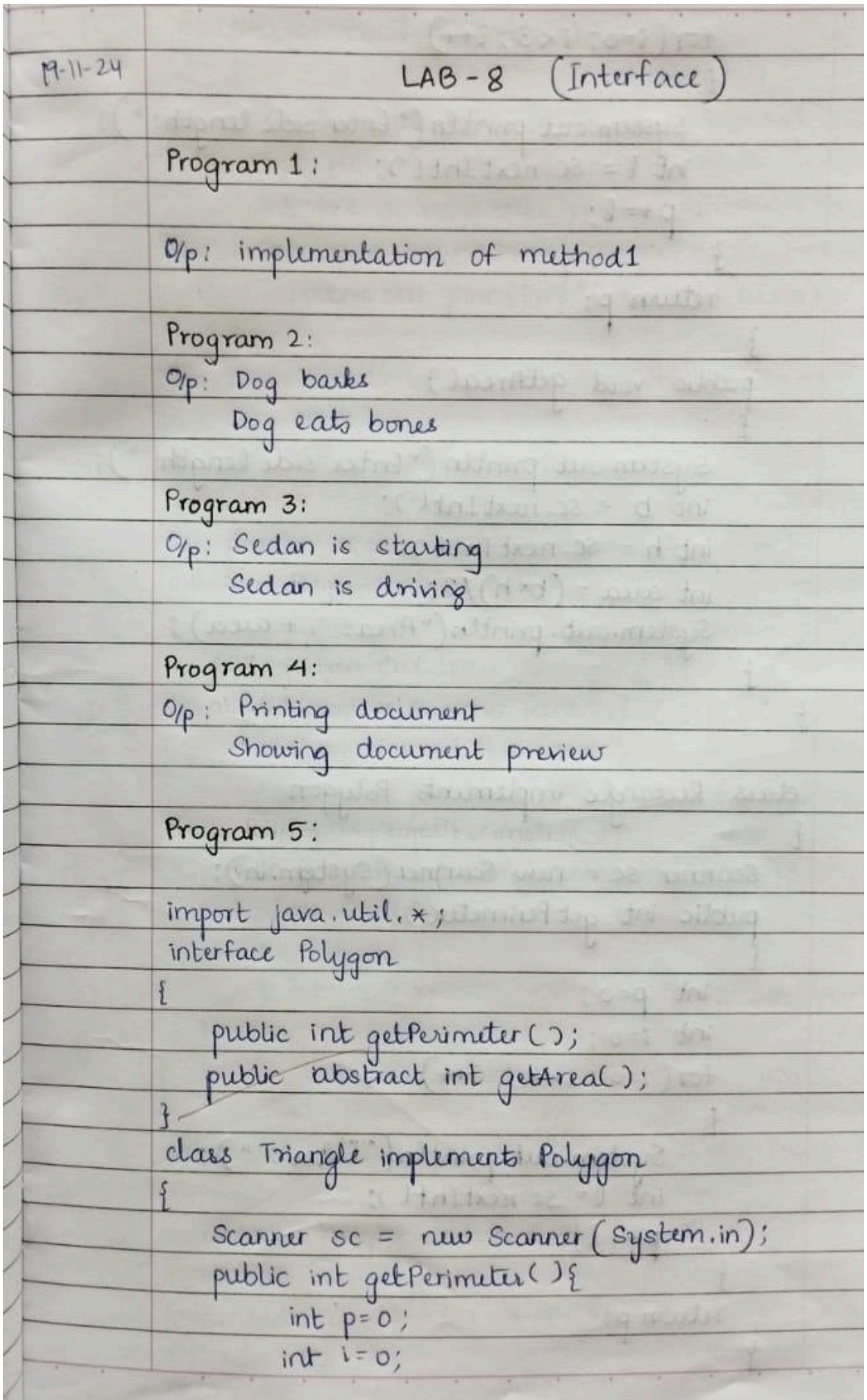
Program 3:

```
C:\Users\Admin\Desktop\cs065>java CarMain
Sedan is starting
Sedan is driving
```

Program 4:

```
C:\Users\Admin\Desktop\cs065>java DocMain
Printing document
Showing document preview
```

Program 5:



9-11-24

LAB - 8 (Interface)

Program 1:

O/p: implementation of method1

Program 2:

O/p: Dog barks
Dog eats bones

Program 3:

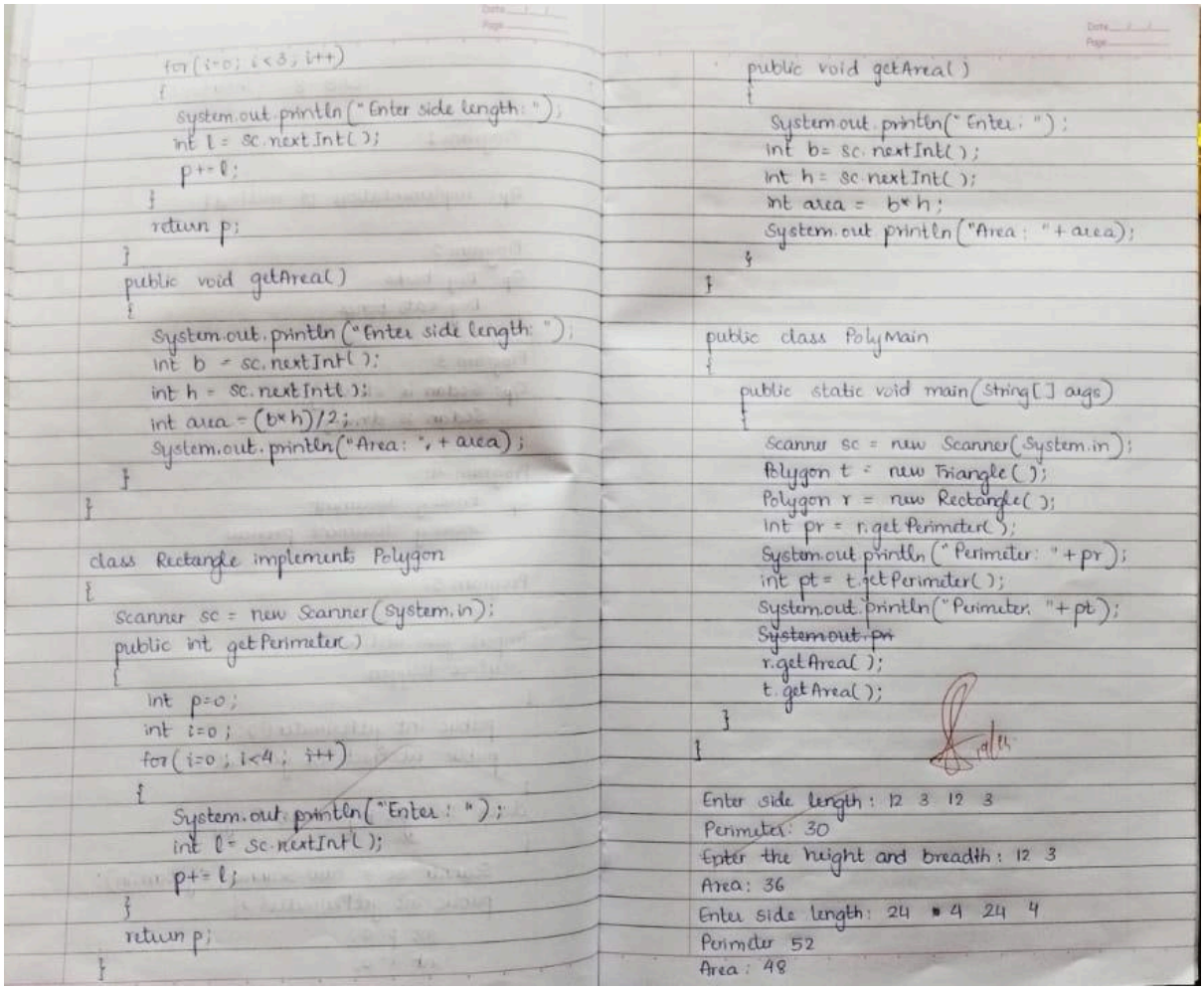
O/p: Sedan is starting
Sedan is driving

Program 4:

O/p: Printing document
Showing document preview

Program 5:

```
import java.util.*;
interface Polygon
{
    public int getPerimeter();
    public abstract int getArea();
}
class Triangle implements Polygon
{
    Scanner sc = new Scanner(System.in);
    public int getPerimeter(){
        int p=0;
        int i=0;
```



```
for(i=0; i<3; i++)
{
System.out.println("Enter side length: ");
int l = sc.nextInt();
p+=l;
}
return p;
}
public void getAreal()
{
System.out.println("Enter side length: ");
int b = sc.nextInt();
int h = sc.nextInt();
int area = (b*h)/2;
System.out.println("Area: ", + area);
}
}

class Rectangle implements Polygon
{
Scanner sc = new Scanner(System.in);
public int getPerimeter()
{
int p=0;
int i=0;
for(i=0; i<4; i++)
{
System.out.println("Enter: ");
int l= sc.nextInt();
p+=l;
}
return p;
}

public void getAreal()
{
System.out.println("Enter: ");
int b= sc.nextInt();
int h= sc.nextInt();
int area = b*h;
System.out.println("Area: "+area);
}
}

public class PolyMain
{
public static void main(String[] args)
{
Scanner sc = new Scanner(System.in);
Polygon t = new Triangle();
Polygon r = new Rectangle();
int pr = r.getPerimeter();
System.out.println("Perimeter: "+pr);
int pt= t.getPerimeter();
System.out.println("Perimeter: "+pt);
System.out.pr
r.getAreal();
t.getAreal();
}
}
```

```
Enter side length: 12 3 12 3
Perimeter: 30
Enter the height and breadth: 12 3
Area: 36
Enter side length: 24 4 24 4
Perimeter 52
Area: 48
```

```
C:\Users\Admin\Desktop\cs065>java  PolyMain
Enter the side length:
12
Enter the side length:
3
Enter the side length:
12
Enter the side length:
3
Perimeter: 30
Enter the height and breadth:
12 3
Area: 36
Enter the side length:
24
Enter the side length:
4
Enter the side length:
24
Perimeter: 52
Enter the height and breadth:
4
24
Area: 48
```