

Program 1:

IT-24022

```
class Assignment {  
    public static void main(String[] abc) {  
        System.out.println("  J   A   V   V   A");  
        System.out.println("  J   A A V   V   A A");  
        System.out.println(" J   J   AAAAA VV   AAAAA");  
        System.out.println(" JJ   A   A   V   A   A");  
    }  
}
```

Program 2:

```
import java.util.Scanner;  
class AreaCalculator {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        System.out.println("select shape:");  
        System.out.println("1. Rhombus");  
        System.out.println("2. Trapezium");  
        System.out.println("3. Parallelogram");  
        System.out.print("Enter your choice:");  
        int t = scanner.nextInt();  
        double area = 0;
```

IT-24029

```
switch (1) {
```

```
case 1:
```

```
System.out.print("Enter first d1:");
```

```
double d1 = scanner.nextDouble();
```

```
System.out.print("Enter d2:");
```

```
double d2 = scanner.nextDouble();
```

```
area = 0.5 * d1 * d2;
```

```
System.out.println("Area of Rhombus = " + area);
```

```
break;
```

```
case 2:
```

```
System.out.print("Enter base 1:");
```

```
double a = scanner.nextDouble();
```

```
System.out.print("Enter base 2:");
```

```
double b = scanner.nextDouble();
```

```
System.out.print("Enter height:");
```

```
double h = scanner.nextDouble();
```

```
area = 0.5 * (a + b) * h;
```

```
System.out.println("Area" + area);
```

```
Case 3:
```

```
System.out.print("Enter base:");
```

```
double base = scanner.nextDouble();
```

```
System.out.print("Enter height:");
```


IT-24029

```
double height = scanner.nextDouble();
```

```
area = base * height;
```

```
System.out.println("Area = " + area);
```

```
break;
```

```
default:
```

```
System.out.println("Invalid choice");
```

```
};
```

```
scanner.close();
```

```
}
```

```
}
```

Program 3:

```
class rectangularArea {
```

```
public static void main(String[] args) {
```

```
double width = 4.5;
```

```
double height = 7.9;
```

```
double area = width * height;
```

```
System.out.print("Area " + area);
```

```
};
```

```
}
```