

Main.java

```
1- import java.util.Scanner;
2
3- class area {
4-     int choice;
5-     float length,breadth,radius,base,area,height,pi=3.14159f;
6-     Scanner sc=new Scanner(System.in);
7
8-     public void circle() {
9-         System.out.print("Enter radius of circle:");
10-         radius = sc.nextFloat();
11-         area = pi * radius * radius;
12-         System.out.println("Area of circle:"+area);
13-     }
14-     public void triangle() {
15
16-         System.out.println("Enter the height of the Triangle:");
17-         base=sc.nextFloat();
18-         height=sc.nextFloat();
19-         area = (base* height)/2;
20-         System.out.println("Area of Triangle is: " + area);
21-     }
22
23-     public void Rectangle() {
24
25-         System.out.println("Enter the length and breadth of the Rectangle:");
26-         length=sc.nextFloat();
27-         breadth=sc.nextFloat();
28-         area = length* breadth;
29-         System.out.println("Area of Rectangle is: " + area);
30-     }
31- }
```

Main.java

```
33- public class Main
34- {
35-     public static void main(String[] args) {
36-         int choice;
37-         area a=new area();
38-         Scanner sc=new Scanner(System.in);
39-         System.out.println("Menu");
40-         System.out.println("1. Area of Rectangle");
41-         System.out.println("2. Area of triangle");
42-         System.out.println("3. Area of circle");
43-         choice=sc.nextInt();
44
45-         switch(choice)
46-         {
47-
48-             case 1: a.Rectangle();
49-             break;
50-             case 2: a.triangle();
51-             break;
52-             case 3: a.circle();
53-             break;
54
55-             default: System.out.println("Invalid");;
56-         }
57-     }
58- }
```

```
Main.java
34 {
35     public static void main(String[] args) {
36         int choice;
37         area a=new area();
38         Scanner sc=new Scanner(System.in);
39         System.out.println("Menu");
40         System.out.println("1. Area of Rectangle");
41         System.out.println("2. Area of triangle");
42         System.out.println("3. Area of circle");
43         choice=sc.nextInt();
44
45         switch(choice)
46         {
47
48             case 1: a.Rectangle();
49             break;
50             case 2: a.triangle();
51         }
52     }
53 }
```

Input

```
Menu
1. Area of Rectangle
2. Area of triangle
3. Area of circle
2
Enter the height of the Triangle:
2
Area of Triangle is: 2.0

...Program finished with exit code 0
Press ENTER to exit console.
```

2nd Program

```
Main.java
1 import java.util.Scanner;
2 public class Main {
3     public static void main(String[] args) {
4
5         String month;
6         Scanner sc=new Scanner(System.in);
7         System.out.println("enter the Month");
8         month=sc.next();
9         String monthString;
10        switch (month) {
11            case "January":
12                System.out.println("1st Month");
13                break;
14            case "February":
15                System.out.println("2nd Month");
16                break;
17            case "March":
18                System.out.println("3rd Month");
19                break;
20            case "April":
21                System.out.println("4th Month");
22                break;
23            case "May":
24                System.out.println("5th Month");
25                break;
26            case "June":
27                System.out.println("6th Month");
28                break;
29            case "July":
30                System.out.println("7th Month");
31                break;
32            case "August":
33                System.out.println("8th Month");
34                break;
35            case "September":
36                System.out.println("9th Month");
37                break;
38            case "October":
39                System.out.println("10th Month");
40                break;
41            case "November":
42                System.out.println("11th Month");
43                break;
44            case "December":
45                System.out.println("12th Month");
46                break;
47            default:
48                System.out.println("Invalid Month");
49        }
50    }
51 }
```

Input

```
enter the Month
September
9th Month

...Program finished with exit code 0
Press ENTER to exit console.
```

3rd Program



The screenshot shows a Java IDE with a file named 'Main.java'. The code defines a 'Main' class with a 'main' method that checks if a character is a vowel. The character 'i' is entered as input, and the program correctly identifies it as a vowel. The console output shows the result and a message to press ENTER to exit.

```
1 public class Main {
2
3
4     public static void main(String[] args) {
5
6         char ch = 'i';
7
8         if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' )
9             System.out.println(ch + " is vowel");
10        else
11            System.out.println(ch + " is consonant");
12
13    }
14 }
```

input

i is vowel

...Program finished with exit code 0
Press ENTER to exit console.