

IDE interface showing a Java project with multiple files open. The main editor displays the source code for `A4main.java`.

**Project Explorer (Left):**

- main - Navigator
- Members
- A4main
  - main(String[] args)

**Source Code (Main Editor):**

```
6 package a4main;
7 import java.util.Scanner;
8 import java.text.*;
9 /**
10  *
11  * @author jonathangarcia
12  */
13 public class A4main {
14
15     /**
16     * @param args the command line arguments
17     */
18     public static void main(String[] args) {
19         int years;
20         final int MONTHS = 12;
21         int totalMonths = 0;
22         double monthlyRain;
23         double totalRainfall = 0;
24
25         NumberFormat df = DecimalFormat.getInstance();
26         df.setMaximumFractionDigits(2);
27
28         Scanner input = new Scanner(System.in);
29
30         System.out.println("Enter the number of years: ");
31         years = input.nextInt();
32
33         System.out.println("Enter the rainfall amount for each month ");
34         for(int i=0; i < years; i++){
35             for(int j=1; j<MONTHS+1; j++){
36                 switch(j){
37                     case 1:
38                         System.out.print("January:");
39                         break;
40                     case 2:
41                         System.out.print("February:");
42                         break;
43                     case 3:
44                         System.out.print("March:");
```

**Run Bar (Bottom):**

A4main (run) running... (1 more...) | 82:78 | INS

IDE interface showing a Java program (A4main.java) with a switch statement and calculations for monthly rainfall.

**Project Explorer:** 'main' running

**main - Navigator:** Members, A4main, main(String[] args)

**Source Code (A4main.java):**

```
47         System.out.print("April:");
48         break;
49     case 5:
50         System.out.print("May:");
51         break;
52     case 6:
53         System.out.print("June:");
54         break;
55     case 7:
56         System.out.print("July:");
57         break;
58     case 8:
59         System.out.print("August:");
60         break;
61     case 9:
62         System.out.print("September:");
63         break;
64     case 10:
65         System.out.print("October:");
66         break;
67     case 11:
68         System.out.print("November:");
69         break;
70     case 12:
71         System.out.print("December:");
72     }
73     monthlyRain = input.nextDouble();
74     totalRainfall += monthlyRain;
75     }
76     totalMonths += MONTHS;
77     }
78     double avgRainfall = totalRainfall/totalMonths;
79
80     System.out.println(" ");
81     System.out.println("Total Months: " + totalMonths + "\nTotal Rainfall: "
82         + df.format(totalRainfall) + "inches" + "\nAverage Rainfall: "
83         + df.format(avgRainfall) + "inches");
84 }
85
```

**Run Bar:** A4main (run) running... (1 more...) | 82:78 | INS

IDE interface showing a Java project with multiple files (a1main.java, A2main.java, A3main.java, A4main.java) open. The main editor displays the source code for A4main.java, which includes a switch statement for months (September, October, November, December) and calculations for monthly rainfall and average rainfall.

```
61 case 9:
62     System.out.print("September:");
63     break;
64 case 10:
65     System.out.print("October:");
66     break;
67 case 11:
68     System.out.print("November:");
69     break;
70 case 12:
71     System.out.print("December:");
72 }
73 monthlyRain = input.nextDouble();
74 totalRainfall += monthlyRain;
75 }
76 totalMonths += MONTHS;
77 }
78 double avgRainfall = totalRainfall/totalMonths;
```

The Navigator panel on the left shows the project structure with A4main and its main method.

The Output panel (A4main (run)) shows the execution output:

```
run:
Enter the number of years:
```

The status bar at the bottom indicates the application is running (A4main (run) running...).

Q Search (%+I)

Pro... Files Services Start Page a1main.java A2main.java A3main.java A4main.java

Libraries  
A2main  
Source Packages  
a2main  
A2main.java  
Libraries  
A3main  
Source Packages  
<default package>  
a3main  
Test Packages  
Libraries  
Test Libraries  
A4main  
Source Packages  
a4main  
A4main.java  
Test Packages

A4main - Navigator  
Members  
A4main  
main(String[] args)

```
54  
55  
56  
57  
58  
59  
60  
61  
break;  
case 7:  
    System.out.print("July:");  
    break;  
case 8:  
    System.out.print("August:");  
    break;  
case 9:
```

Output - A4main (run)

run:  
Enter the number of years:  
1  
Enter the rainfall amount for each month  
January:2  
February:2  
March:2  
April:23  
May:4  
June:3  
July:2  
August:1  
September:6  
October:5  
November:4  
December:7  
  
Total Months: 12  
Total Rainfall: 61inches  
Average Rainfall: 5.08inches  
BUILD SUCCESSFUL (total time: 12 seconds)