

```
1 package javasessions;
2
3 public class IfElseconcept {
4
5     public static void main(String[] args) {
6
7
8         System.out.println(10==10);
9
10
11
12     }
13 }
```

True

```
9
10
11     int a = 30;
12     int b = 20;
13
14     if(a>b) {
15         System.out.println("a is gr than b");
16     }
17     else {
18         System.out.println("b is gr than a");
19     }
20
21
22 }
```

a is gr than b



Else not mandatory-

```

10
11     int a = 10;
12     int b = 20;
13
14     if(a>b) {
15         System.out.println("a is gr than b");
16     }
17
18
19
20

```



We wont get output for the above condition check.--blank output.

```

20
21     if(true) {
22         System.out.println("Hii");
23     }
24

```

Hii

```

20
21     if(false) {
22         System.out.println("Hii");
23     }
24

```

Nothing printed.

Line 22 is dead code as that line will never run.

```

20
21     if(true) {
22         System.out.println("Hii");
23     }
24     else {//dead code
25         System.out.println("bye");
26     }
27
28

```

Hii.

```

20
21     if(false) {
22         System.out.println("Hii");
23     }
24     else {//dead code
25         System.out.println("bye");
26     }
27

```

bye

good way-

```

27
28     boolean flag = true;
29     if(flag) {
30         System.out.println("Hello");
31     }
32     else {
33         System.out.println("Bye!!!");
34     }
35

```

Hello.

```

27
28     boolean flag = false;
29     if(flag) {
30         System.out.println("Hello");
31     }
32     else {
33         System.out.println("Bye!!!");
34     }
35
36

```

Bye

This is the correct way of writing.

Never hard code true or false inside the if block.

```

55
36     boolean isHeadLess = true;
37     if(isHeadLess) {
38         System.out.println("run tc is headless");
39     }
40     else {
41         System.out.println("run tc is normal mode");
42     }

```

if block runs.

```

44
45     if(10>5) {
46         System.out.println("naveen");
47     }

```

naveen

```

47
48
49 //if--if-else--if
50 //nested if/else
51
52 int marks = 97;
53
54 if(marks<=100) {
55     if(marks>=90) {
56         System.out.println("GRADE A");
57         if(marks>=95) {
58             System.out.println("100% scholarship");
59         }
60     }
61 }
62 else {
63     System.out.println("INVALID MARKS");
64 }
65
66

```



grade A

100% scholarship.

```

47
48
49 //if--if-else--if
50 //nested if/else
51
52 int marks = 100;
53
54 if(marks<=100) {
55     if(marks>=90) {
56         System.out.println("GRADE A");
57         if(marks>=95) {
58             System.out.println("100% scholarship");
59             if(marks==100) {
60                 System.out.println("0% tuition fee");
61             }
62         }
63     }
64 }
65 else {
66     System.out.println("INVALID MARKS");
67 }
68

```



grade a

100 percent scholarship

0 percent tuition fee.

same code-

```
47     }
48
49 //if--if-else--if
50 //nested if/else
51
52 int marks = 97;
53
54 if(marks<=100) {
55     if(marks>=90) {
56         System.out.println("GRADE A");
57         if(marks>=95) {
58             System.out.println("100% scholarship");
59             if(marks==100) {
60                 System.out.println("0% tuition fee");
61             }
62             else {
63                 System.out.println("10% fee");
64             }
65         }
66     }
67 }
68 else {
69     System.out.println("INVALID MARKS");
70 }
71
72
```



Note-

Compare primitive data type use ==.

Non primitive data type compare using
.equals()

```

77
78 //if-elseif-elseif-else
79 String browser = "chrome";
80
81 if(browser.equals("chrome")) {
82     System.out.println("chrome is launched");
83 }
84 if(browser.equals("firefox")) {
85     System.out.println("ff is launched");
86 }
87 if(browser.equals("edge")) {
88     System.out.println("edge is launched");
89 }
90 if(browser.equals("ie")) {
91     System.out.println("ie is launched");
92 }
93 else {
94     System.out.println("plz pass the right browser : " + browser);
95 }

```

chrome is launched
plz pass the right browser : chrome

This is because last if condition not satisfied so else also executed.

```

96
97     String browser = "chrome";
98
99     if(browser.equals("chrome")) {
100         System.out.println("chrome is launched");
101     }
102     else if(browser.equals("firefox")) {
103         System.out.println("firefox is launched");
104     }
105     else if(browser.equals("edge")) {
106         System.out.println("edge is launched");
107     }
108     else if(browser.equals("ie")) {
109         System.out.println("ie is launched");
110     }
111     else {
112         System.out.println("plz pass the right browser : " + browser);
113     }

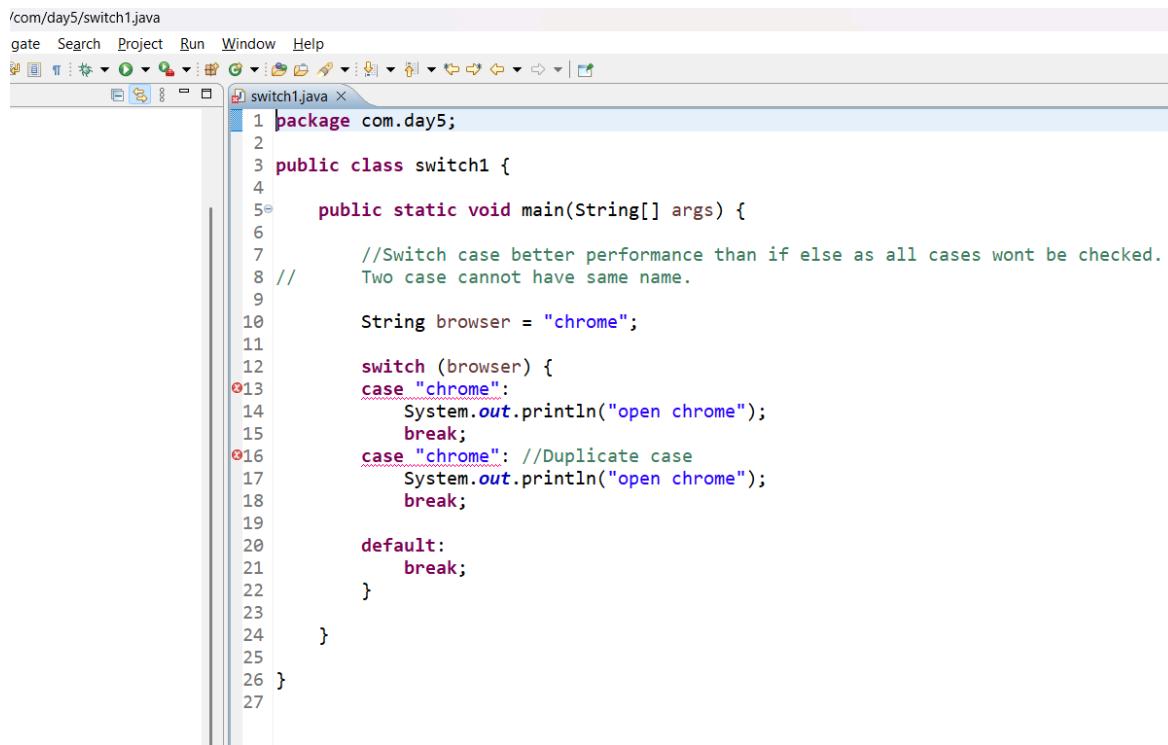
```

Chrome is launched.

Switch case-

Two case cannot have same name.

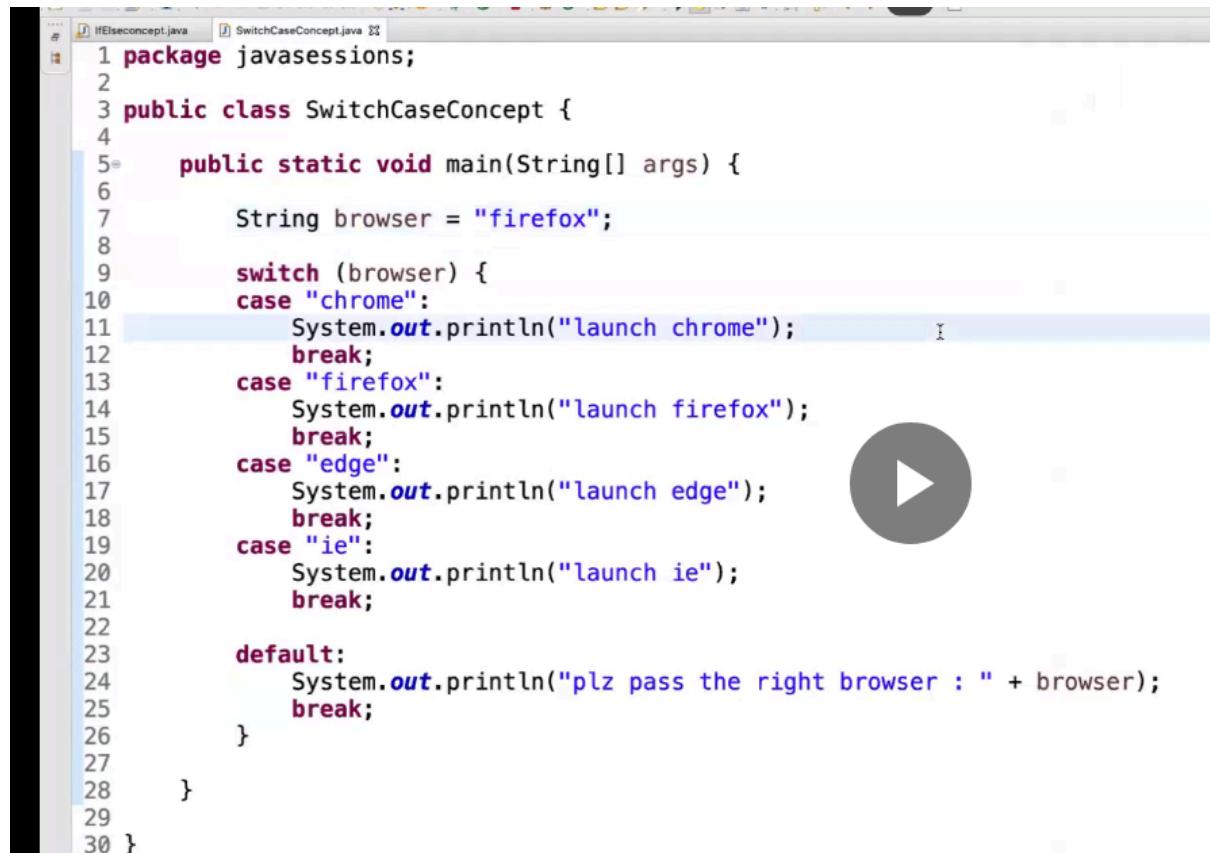
write switch 1 code-



```

/com/day5/switch1.java
gate Search Project Run Window Help
switch1.java x
1 package com.day5;
2
3 public class switch1 {
4
5     public static void main(String[] args) {
6
7         //Switch case better performance than if else as all cases wont be checked.
8         // Two case cannot have same name.
9
10        String browser = "chrome";
11
12        switch (browser) {
13            case "chrome":
14                System.out.println("open chrome");
15                break;
16            case "chrome": //Duplicate case
17                System.out.println("open chrome");
18                break;
19
20            default:
21                break;
22        }
23
24    }
25
26 }
27

```



```

jIfElseconcept.java SwitchCaseConcept.java
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         String browser = "firefox";
8
9         switch (browser) {
10            case "chrome":
11                System.out.println("launch chrome");
12                break;
13            case "firefox":
14                System.out.println("launch firefox");
15                break;
16            case "edge":
17                System.out.println("launch edge");
18                break;
19            case "ie":
20                System.out.println("launch ie");
21                break;
22
23            default:
24                System.out.println("plz pass the right browser : " + browser);
25                break;
26        }
27
28    }
29
30 }

```

Switch case better performance than if else as all cases wont be checked.

Without break-

The screenshot shows the Eclipse IDE interface with two tabs: 'IfElseconcept.java' and 'SwitchCaseConcept.java'. The 'SwitchCaseConcept.java' tab is active, displaying the following Java code:

```

1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         String browser = "chrome";
8     switch (browser) {
9         case "chrome":
10            System.out.println("launch chrome");
11            //break;
12        case "firefox":
13            System.out.println("launch firefox");
14            //break;
15        case "edge":
16            System.out.println("launch edge");
17            //break;
18        case "ie":
19            System.out.println("launch ie");
20            //break;
21
22        default:
23            System.out.println("plz pass the right browser : " + browser);
24            //break;
25     }
26
27 }
28
29 }
30 }
```

Below the code editor is a terminal window showing the execution results:

```

<terminated> SwitchCaseConcept (4) [Java Application] /Users/naveenautomationlabs/p2pool/plugins/org.eclipse.jdt.core.pde.core
launch chrome
launch firefox
launch edge
launch ie
plz pass the right browser : chrome
```

Break added somewhere in between-



```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         String browser = "chrome";
8
9         switch (browser) {
10            case "chrome":
11                System.out.println("launch chrome");
12                //break;
13            case "firefox":
14                System.out.println("launch firefox");
15                //break;
16            case "edge":
17                System.out.println("launch edge");
18                break;
19            case "ie":
20                System.out.println("launch ie");
21                //break;
22
23        default:
24            System.out.println("plz pass the right browser : " + browser);
25            //break;
26        }
27
28    }
29}
```

<terminated> SwitchCaseConcept (4) [Java A]

launch chrome
launch firefox
launch edge



```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         String browser = "ie";
8
9         switch (browser) {
10            case "chrome":
11                System.out.println("launch chrome");
12                //break;
13            case "firefox":
14                System.out.println("launch firefox");
15                //break;
16            case "edge":
17                System.out.println("launch edge");
18                //break;
19            case "ie":
20                System.out.println("launch ie");
21                break;
22
23        default:
24            System.out.println("plz pass the right browser : " + browser);
25            //break;
26        }
27    }
28 }
```

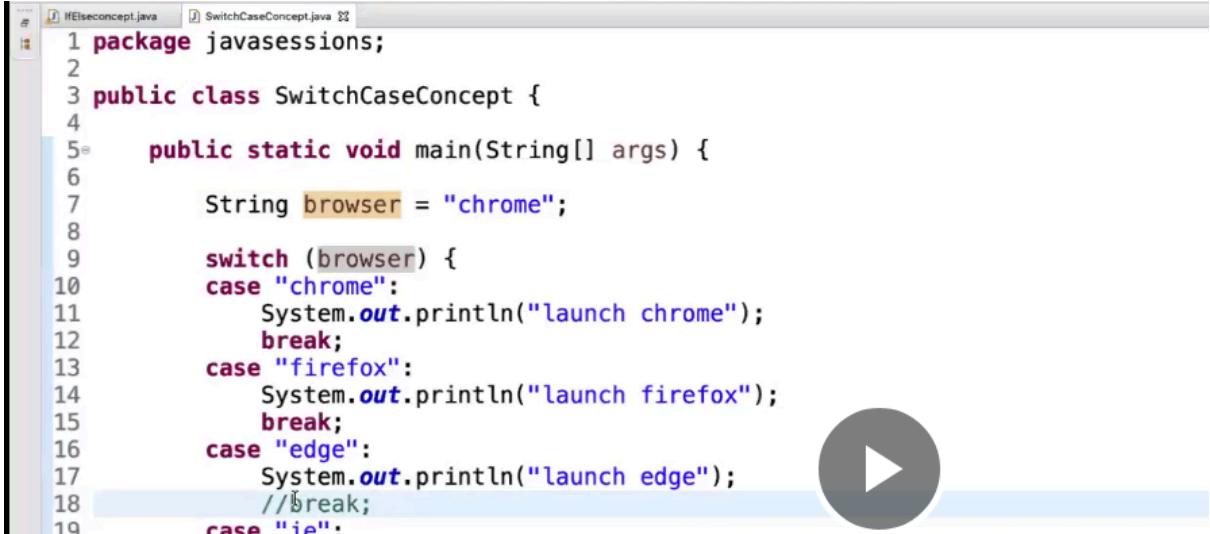
<terminated> SwitchCaseConcept i
|launch ie



```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         String browser = "chrome";
8
9         switch (browser) {
10            case "chrome":
11                System.out.println("launch chrome");
12                //break;
13            case "firefox":|  ← Clicked here
14                System.out.println("launch firefox");
15                break;
16            case "edge":
17                System.out.println("launch edge");
18                //break;
19            case "ie":
20                System.out.println("launch ie");
21                //break;
22
23        default:
24            System.out.println("plz pass the right browser : " + browser);
25            //break;
26        }
27    }
28
29
30 }
31
```

<terminated> SwitchCaseConcept (4) [Java] →

launch chrome
launch firefox



```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         String browser = "chrome";
8
9         switch (browser) {
10            case "chrome":
11                System.out.println("launch chrome");
12                break;
13            case "firefox":
14                System.out.println("launch firefox");
15                break;
16            case "edge":
17                System.out.println("launch edge");
18                //break;
19            case "ie":
20                System.out.println("launch ie");
21                //break;
22
23        default:
24            System.out.println("plz pass the right browser : " + browser);
25            //break;
26        }
27    }
28
29 }
30 }
```

<terminated> SwitchCaseConcept (4) [J
| launch chrome

Break not eligible for if else-

```

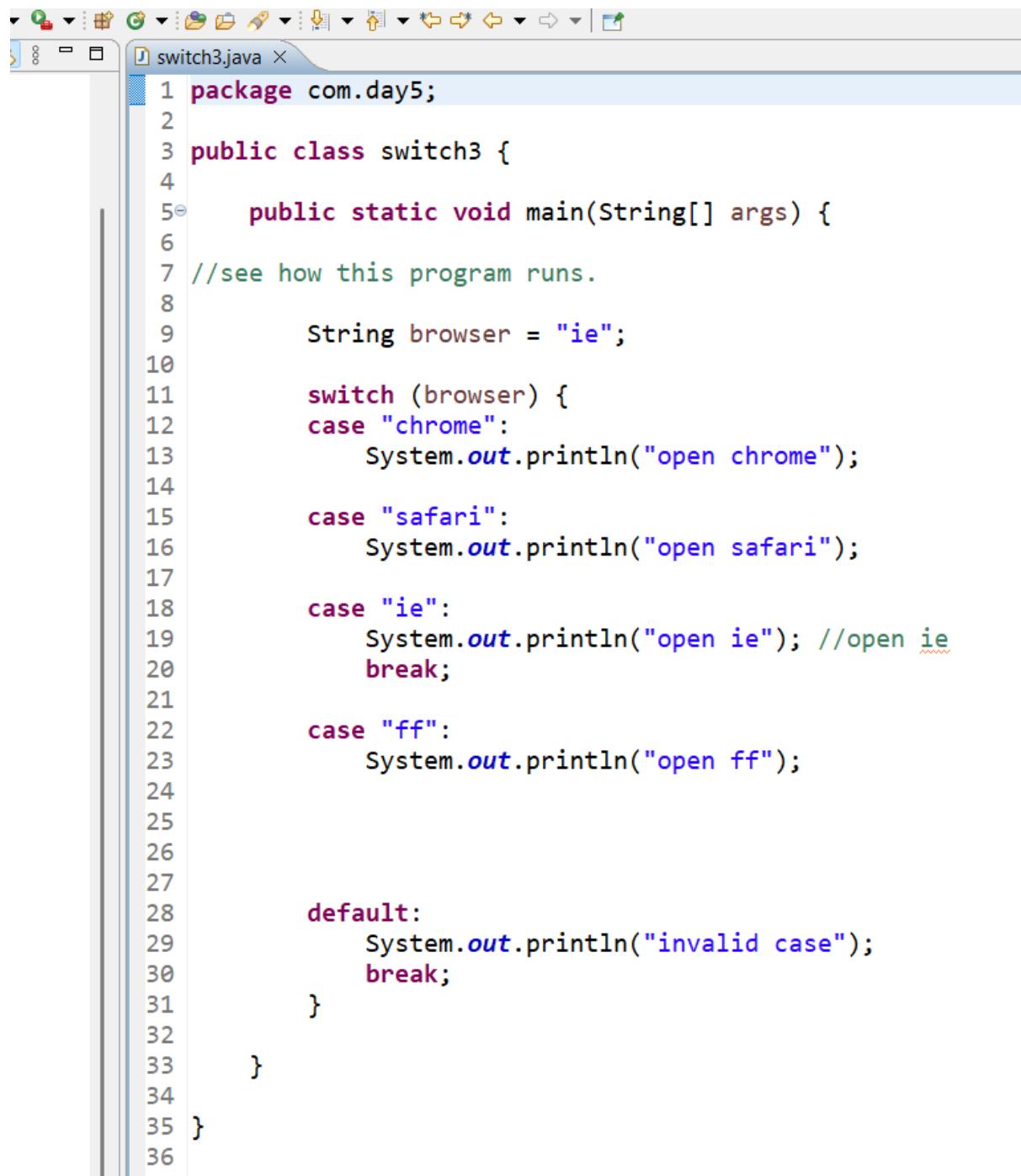
76
77
78 //if-elseif-elseif-else
79 String browser = "chrome";
80
81 if(browser.equals("chrome")) {
82     System.out.println("chrome is launched");
83     break;
84 }
85 if(browser.equals("firefox")) {
86     System.out.println("ff is launched");
87 }
88 if(browser.equals("edge")) {
89     System.out.println("edge is launched");
90 }
91 if(browser.equals("ie")) {
92     System.out.println("ie is launched");
93 }
94 else {
95     System.out.println("plz pass the right browser : " + browser);
96 }
97
98 // String browser = "opera";

~~ ~
96
97 String browser = "firefox";
98
99 if(browser.equals("chrome")) {
100     System.out.println("chrome is launched");
101 }
102 else if(browser.equals("firefox")) {
103     System.out.println("firefox is launched");
104     break;
105 }
106 else if(browser.equals("edge")) {
107     System.out.println("edge is launched");
108 }
109 else if(browser.equals("ie")) {
110     System.out.println("ie is launched");
111 }
112 else {
113     System.out.println("plz pass the right browser : " + browser);
114 }
115
116
117

```



paste switch3—



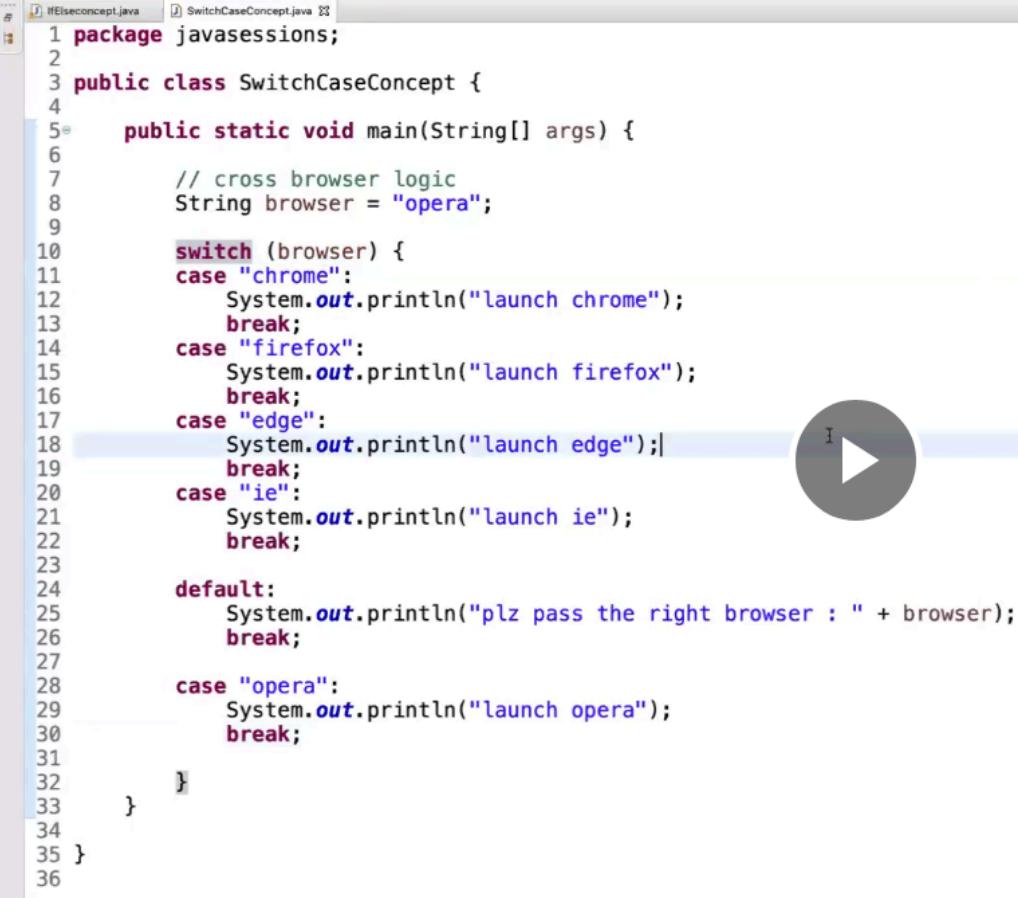
The screenshot shows a Java code editor with the file "switch3.java" open. The code demonstrates a switch statement with multiple cases and a default case. The browser variable is set to "ie". The code prints "open chrome", "open safari", and "open ie" to the console. The "ie" case includes a break statement, while the other cases do not. The "ff" case is commented out. The "default" case prints "invalid case". The code is numbered from 1 to 36.

```
1 package com.day5;
2
3 public class switch3 {
4
5     public static void main(String[] args) {
6
7         //see how this program runs.
8
9         String browser = "ie";
10
11         switch (browser) {
12             case "chrome":
13                 System.out.println("open chrome");
14
15             case "safari":
16                 System.out.println("open safari");
17
18             case "ie":
19                 System.out.println("open ie"); //open ie
20                 break;
21
22             case "ff":
23                 System.out.println("open ff");
24
25
26
27             default:
28                 System.out.println("invalid case");
29                 break;
30             }
31
32         }
33     }
34
35 }
36 }
```

Break only for loops. For, while, do while, switch case.

Launch opera.

Default need not be last one.



```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = "opera";
9
10        switch (browser) {
11            case "chrome":
12                System.out.println("launch chrome");
13                break;
14            case "firefox":
15                System.out.println("launch firefox");
16                break;
17            case "edge":
18                System.out.println("launch edge");
19                break;
20            case "ie":
21                System.out.println("launch ie");
22                break;
23
24            default:
25                System.out.println("plz pass the right browser : " + browser);
26                break;
27
28            case "opera":
29                System.out.println("launch opera");
30                break;
31
32        }
33    }
34
35 }
```

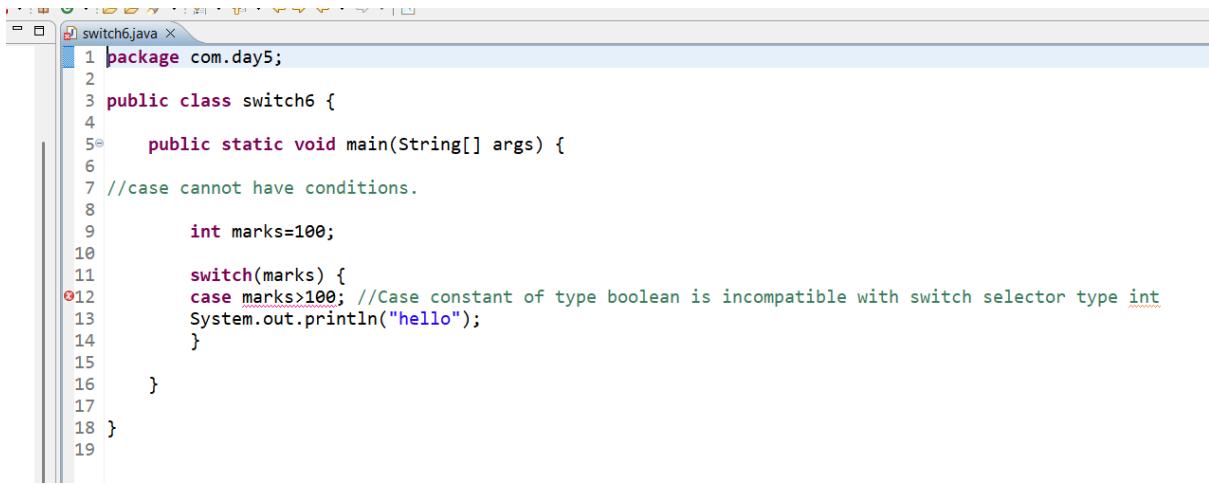
even default need not have break–

The screenshot shows a Java code editor with a file named 'SwitchCaseConcept.java'. The code contains a main method that initializes a variable 'browser' to 'naveen' and then uses a switch statement to print different messages based on the value of 'browser'. The 'default' case prints a message asking for the correct browser. The code is as follows:

```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = "naveen";
9
10        switch (browser) {
11            case "chrome":
12                System.out.println("launch chrome");
13                break;
14            case "firefox":
15                System.out.println("launch firefox");
16                break;
17            case "edge":
18                System.out.println("launch edge");
19                break;
20            case "ie":
21                System.out.println("launch ie");
22                break;
23
24            default:
25                System.out.println("plz pass the right browser : " + browser);
26                //break;
27
28            case "opera":
29                System.out.println("launch opera");
30                break;
31
32        }
33    }
34
35 }
36
```

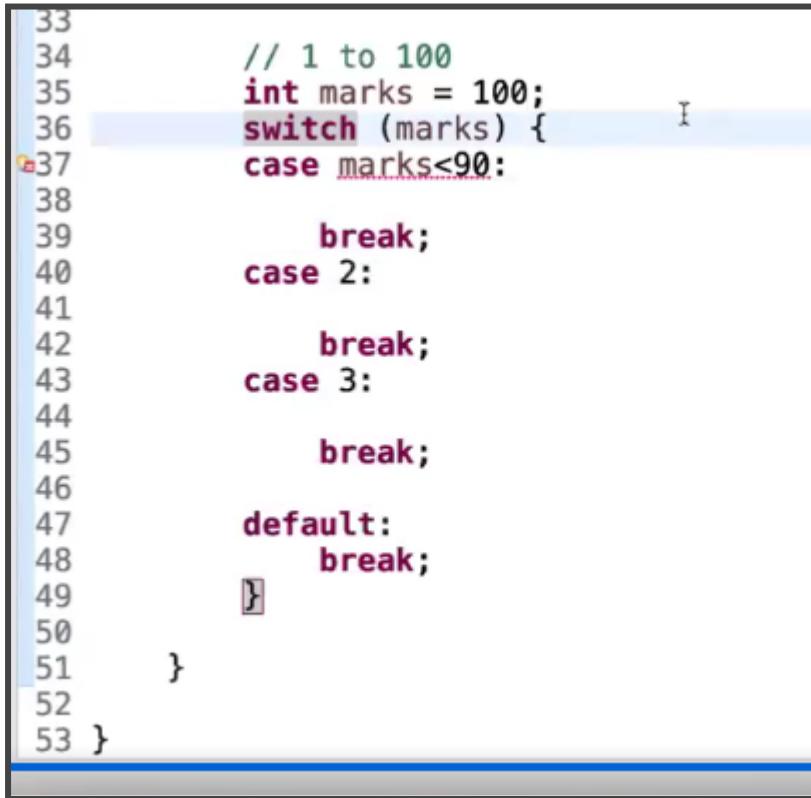
```
<terminated> SwitchCaseConcept (4) [Java Application] /Users/naveenautomationlabs/p2/pool/pl
plz pass the right browser : naveen
launch opera
```

Case cannot have conditions-
paste switch6 –



A screenshot of a Java IDE showing a code editor with a file named "switch6.java". The code contains a switch statement where the selector is an integer (marks) and one of the cases is a boolean expression (marks > 100). This results in a compile-time error: "Case constant of type boolean is incompatible with switch selector type int".

```
1 package com.day5;
2
3 public class switch6 {
4
5     public static void main(String[] args) {
6
7 //case cannot have conditions.
8
9     int marks=100;
10
11     switch(marks) {
12         case marks>100; //Case constant of type boolean is incompatible with switch selector type int
13         System.out.println("hello");
14     }
15
16 }
17
18 }
19
```



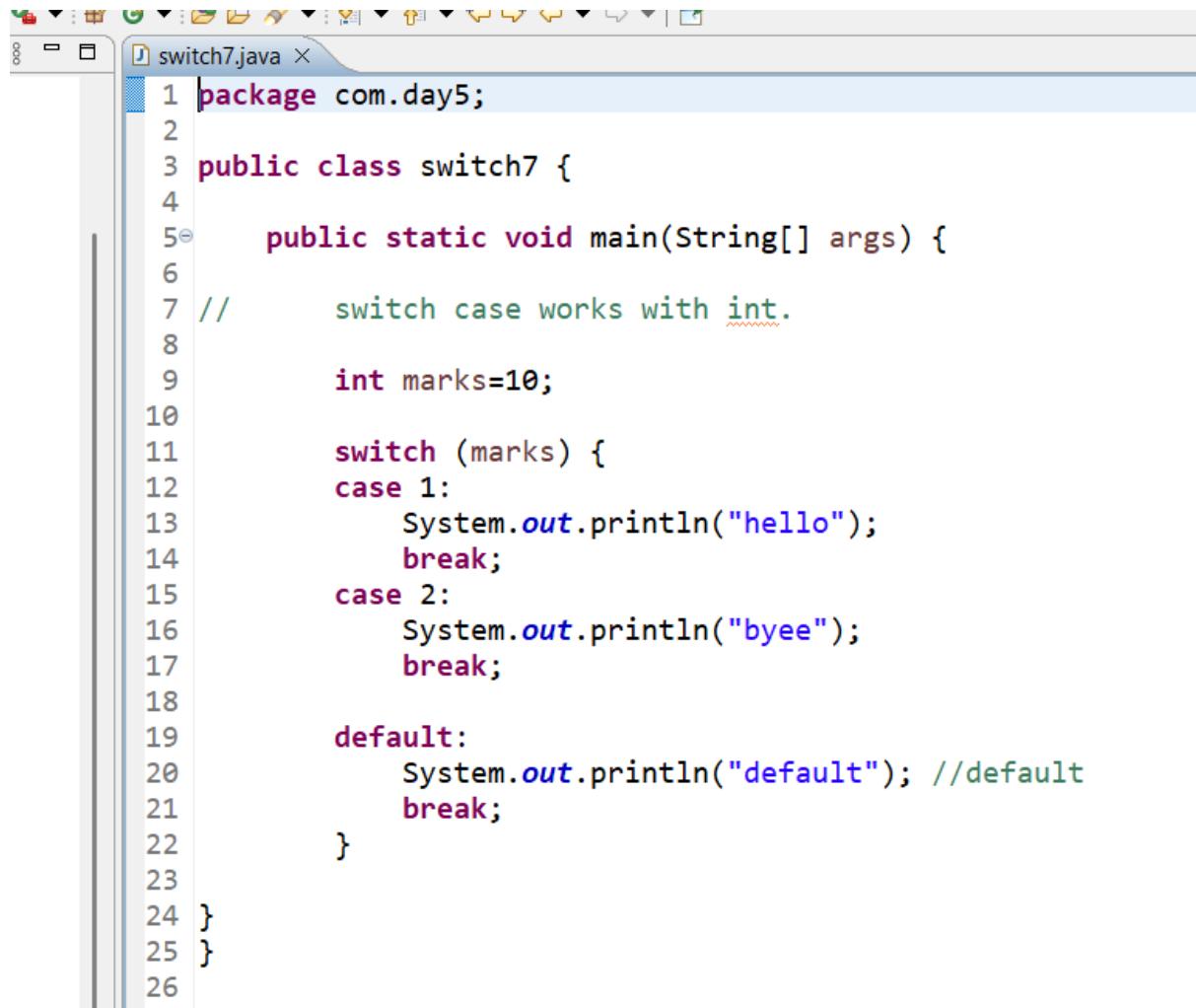
A screenshot of a Java IDE showing a code editor with a file containing a valid switch statement. The selector is an integer named "marks". The cases are labeled with numerical values: 1, 2, 3, and default. Each case has a corresponding "break" statement.

```
33
34     // 1 to 100
35     int marks = 100;
36     switch (marks) {
37         case marks<90:
38
39             break;
40         case 2:
41
42             break;
43         case 3:
44
45             break;
46
47         default:
48             break;
49     }
50
51 }
52
53 }
```

Switch case can also have numbers.

Switch can have any int numbers, except long. No float and no double allowed. String allowed.

switch 7 to 12 paste –

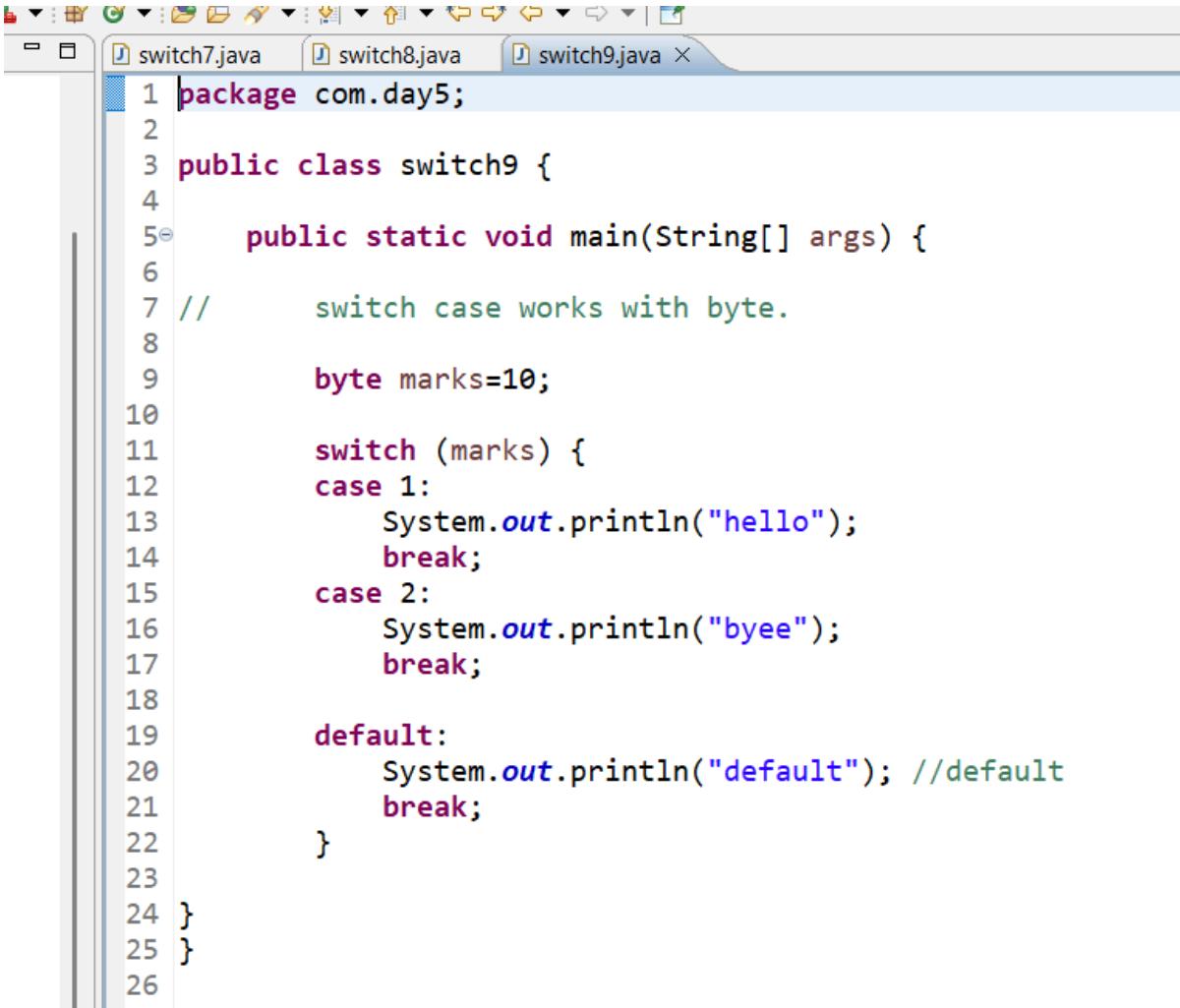


The screenshot shows a Java code editor with the file "switch7.java" open. The code demonstrates a switch statement with integer cases. The code is as follows:

```
1 package com.day5;
2
3 public class switch7 {
4
5     public static void main(String[] args) {
6
7         //      switch case works with int.
8
9         int marks=10;
10
11        switch (marks) {
12            case 1:
13                System.out.println("hello");
14                break;
15            case 2:
16                System.out.println("byee");
17                break;
18
19            default:
20                System.out.println("default"); //default
21                break;
22        }
23
24    }
25
26 }
```

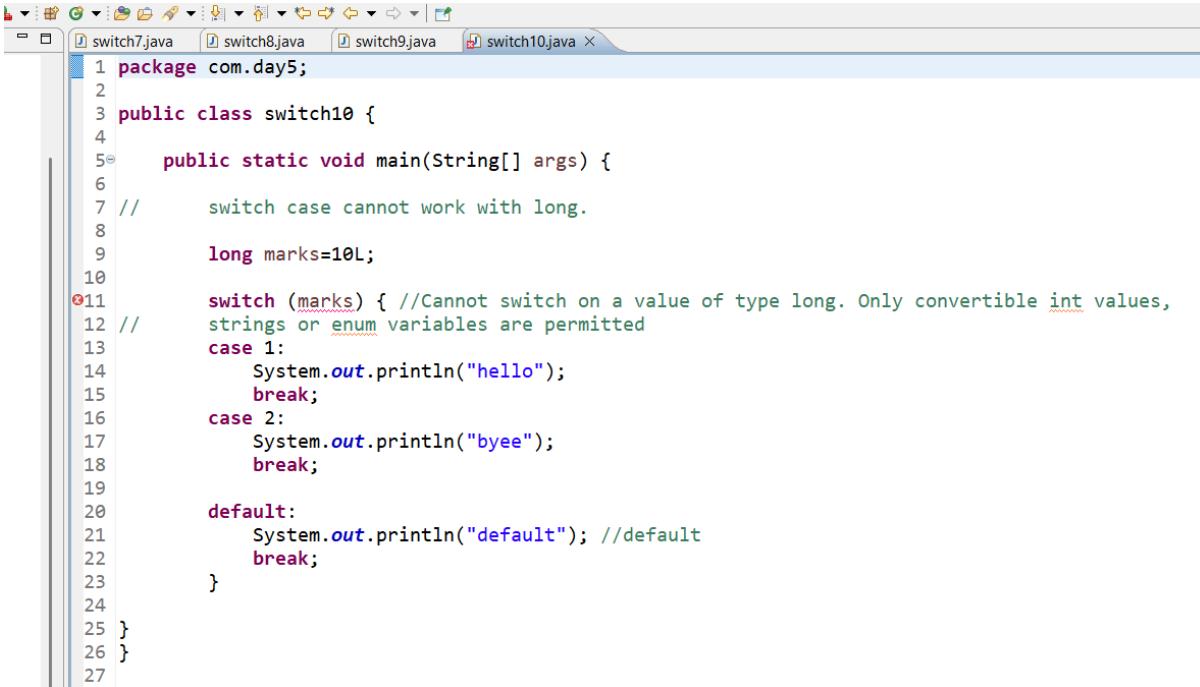
The screenshot shows a Java IDE interface with two tabs at the top: "switch7.java" and "switch8.java". The "switch8.java" tab is active, displaying the following Java code:

```
1 package com.day5;
2
3 public class switch8 {
4
5     public static void main(String[] args) {
6
7         //      switch case works with short.
8
9         short marks=10;
10
11        switch (marks) {
12            case 1:
13                System.out.println("hello");
14                break;
15            case 2:
16                System.out.println("byee");
17                break;
18
19            default:
20                System.out.println("default"); //default
21                break;
22        }
23
24    }
25
26 }
```



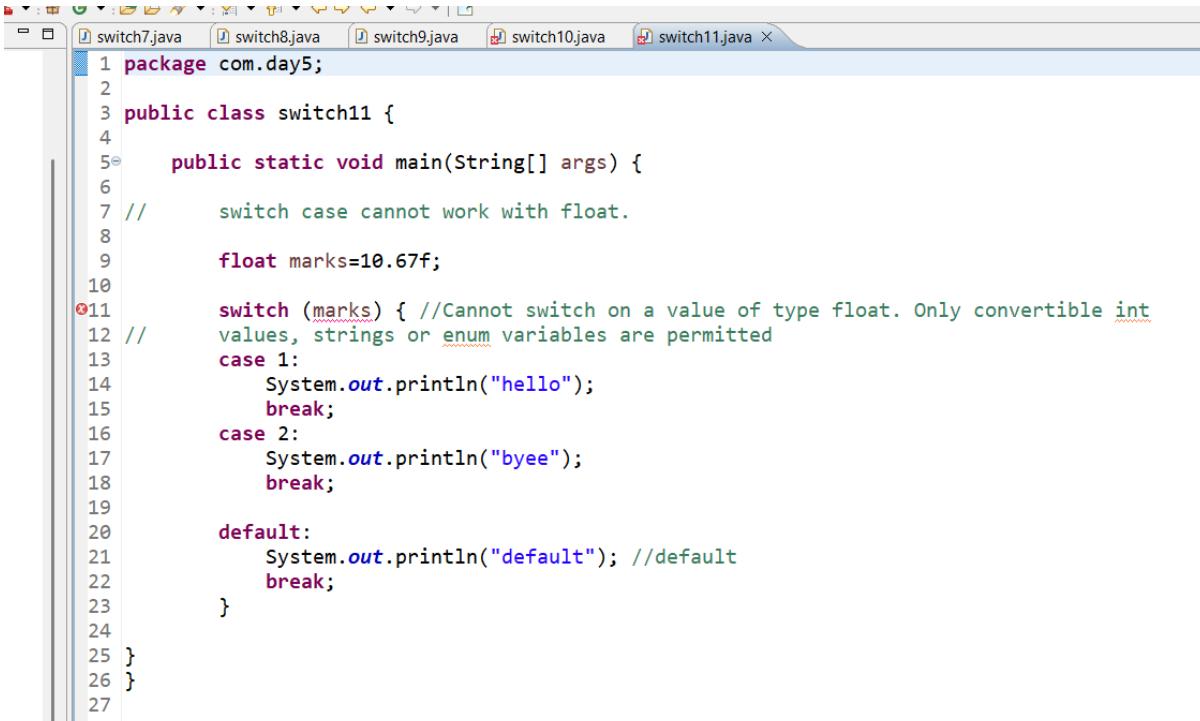
```

1 package com.day5;
2
3 public class switch9 {
4
5     public static void main(String[] args) {
6
7         //      switch case works with byte.
8
9         byte marks=10;
10
11        switch (marks) {
12            case 1:
13                System.out.println("hello");
14                break;
15            case 2:
16                System.out.println("byee");
17                break;
18
19            default:
20                System.out.println("default"); //default
21                break;
22        }
23
24    }
25
26 }
```



```

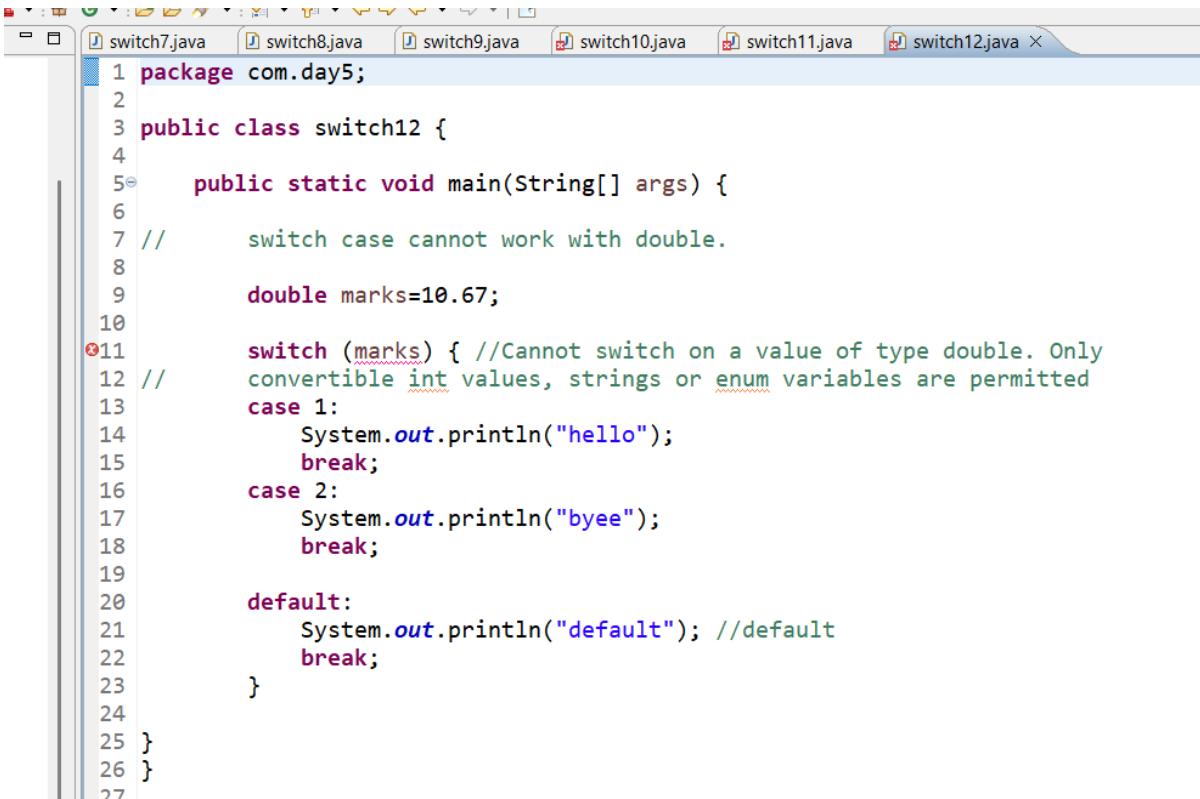
1 package com.day5;
2
3 public class switch10 {
4
5     public static void main(String[] args) {
6
7         //      switch case cannot work with long.
8
9         long marks=10L;
10
11        switch (marks) { //Cannot switch on a value of type long. Only convertible int values,
12 //                      strings or enum variables are permitted
13            case 1:
14                System.out.println("hello");
15                break;
16            case 2:
17                System.out.println("byee");
18                break;
19
20            default:
21                System.out.println("default"); //default
22                break;
23        }
24
25    }
26
27 }
```



```

1 package com.day5;
2
3 public class switch11 {
4
5     public static void main(String[] args) {
6
7         //      switch case cannot work with float.
8
9         float marks=10.67f;
10
11        switch (marks) { //Cannot switch on a value of type float. Only convertible int
12        // values, strings or enum variables are permitted
13        case 1:
14            System.out.println("hello");
15            break;
16        case 2:
17            System.out.println("byee");
18            break;
19
20        default:
21            System.out.println("default"); //default
22            break;
23        }
24
25    }
26
27

```



```

1 package com.day5;
2
3 public class switch12 {
4
5     public static void main(String[] args) {
6
7         //      switch case cannot work with double.
8
9         double marks=10.67;
10
11        switch (marks) { //Cannot switch on a value of type double. Only
12        // convertible int values, strings or enum variables are permitted
13        case 1:
14            System.out.println("hello");
15            break;
16        case 2:
17            System.out.println("byee");
18            break;
19
20        default:
21            System.out.println("default"); //default
22            break;
23        }
24
25    }
26
27

```

Char allowed-

```
64     char ch = 'a';
65     switch (ch) {
66         case 'a':
67             System.out.println("a is vowel");
68             break;
69         case 'e':
70             System.out.println("e is vowel");
71             break;
72         case 'i':
73             System.out.println("i is vowel");
74             break;
75         case 'o':
76             System.out.println("o is vowel");
77             break;
78         case 'u':
79             System.out.println("u is vowel");
80             break;
81
82         default:
83             System.out.println(ch + " is a consonant ");
84             break;
85     }
86
87
88
89 }
90
91 }
92 }
```



a is vowel.

Case sensitive-

```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = "CHROME";
9
10        switch (browser) {
11            case "chrome":
12                System.out.println("launch chrome");
13                break;
14            case "firefox":
15                System.out.println("launch firefox");
16                break;
17            case "edge":
18                System.out.println("launch edge");
19                break;
20            case "ie":
21                System.out.println("launch ie");
22                break;
23
24            default:
25                System.out.println("plz pass the right browser : " + browser);
26                break;
27
28            case "opera":
29                System.out.println("launch opera");
30                break;
31
32        }
33    }
}
```



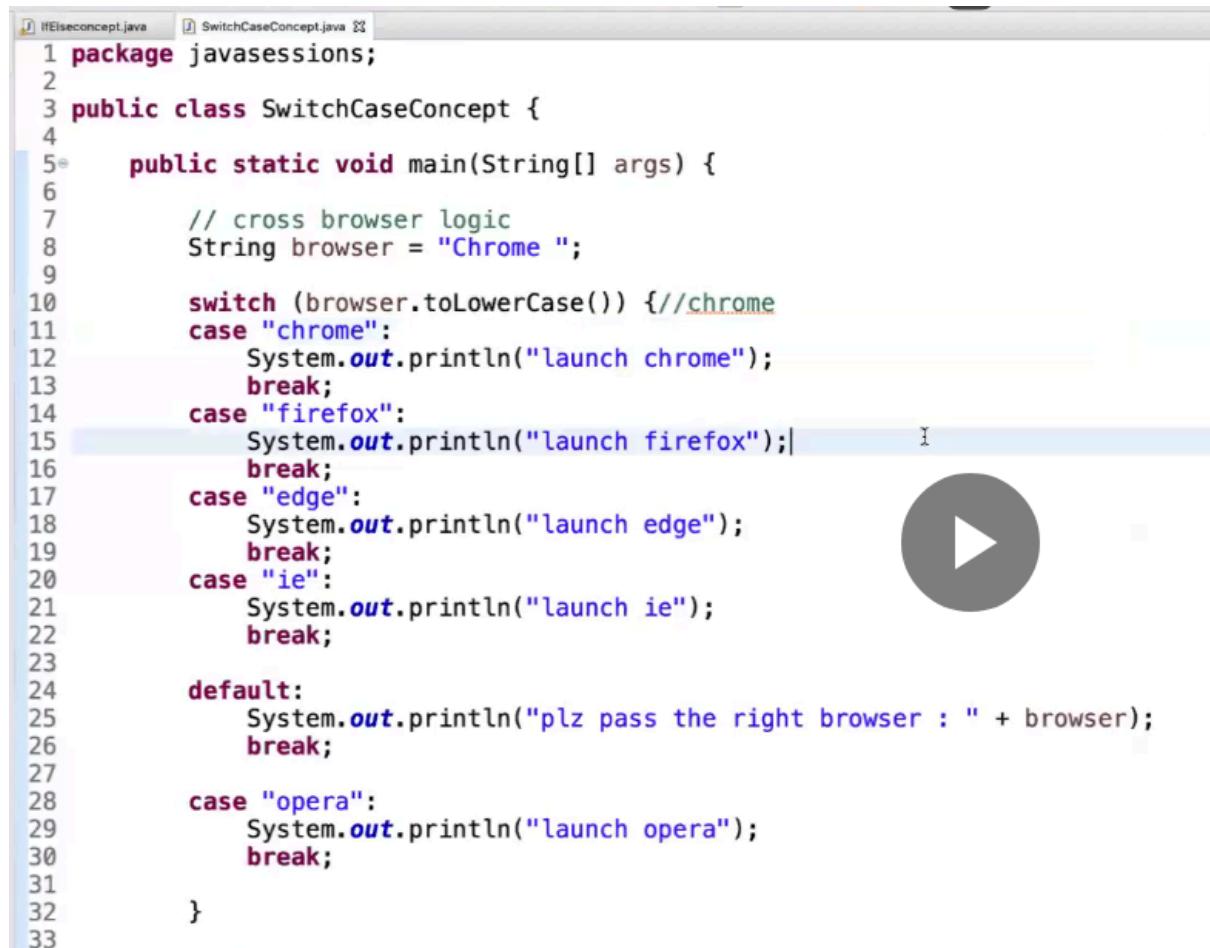
Output is from default case.

To lower case-



```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = "CHROME";
9
10        switch (browser.toLowerCase()) { //chrome
11            case "chrome":
12                System.out.println("launch chrome");
13                break;
14            case "firefox":
15                System.out.println("launch firefox");
16                break;
17            case "edge":
18                System.out.println("launch edge");
19                break;
20            case "ie":
21                System.out.println("launch ie");
22                break;
23
24            default:
25                System.out.println("plz pass the right browser : " + browser);
26                break;
27
28            case "opera":
29                System.out.println("launch opera");
30                break;
31        }
32    }
33 }
```

Space in words-



```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = "Chrome ";
9
10        switch (browser.toLowerCase()) { //chrome
11            case "chrome":
12                System.out.println("launch chrome");
13                break;
14            case "firefox":
15                System.out.println("launch firefox");
16                break;
17            case "edge":
18                System.out.println("launch edge");
19                break;
20            case "ie":
21                System.out.println("launch ie");
22                break;
23
24        default:
25            System.out.println("plz pass the right browser : " + browser);
26            break;
27
28        case "opera":
29            System.out.println("launch opera");
30            break;
31
32    }
33 }
```

Default case is printed.

Trim-

Remove corner spaces.



```
1 IfElseconcept.java  2 *SwitchCaseConcept.java  3
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = " Chrome ";
9
10        switch (browser.toLowerCase().trim()) { //chrome
11            case "chrome":
12                System.out.println("launch chrome");
13                break;
14            case "firefox":
15                System.out.println("launch firefox");
16                break;
17            case "edge":
18                System.out.println("launch edge");
19                break;
20            case "ie":
21                System.out.println("launch ie");
22                break;
23
24            default:
25                System.out.println("plz pass the right browser : " + browser);
26                break;
27
28            case "opera":
29                System.out.println("launch opera");
30                break;
31        }
32
33    // 1 to 100
34 }
```

Space in middle, end and start-
middle space cannot be solved.

```
1 package javasessions;
2
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = " Chrome ";
9
10        switch (browser.toLowerCase().trim()) { //chrome
11            case "chrome":
12                System.out.println("launch chrome");
13                break;
14            case "firefox":
15                System.out.println("launch firefox");
16                break;
17            case "edge":
18                System.out.println("launch edge");
19                break;
20            case "ie":
21                System.out.println("launch ie");
22                break;
23
24            default:
25                System.out.println("plz pass the right browser : " + browser);
26                break;
27
28            case "opera":
29                System.out.println("launch opera");
30                break;
31        }
32
33    // 1 to 100
34 }
```

<terminated> SwitchCaseConcept (4) [Java Application] /Users/naveenautomationlabs/p2/pool/plugins/org.eclipse终端输出显示：plz pass the right browser : Chr ome

Nested switch case allowed-



```
1 NElseconcept.java 2 SwitchCaseConcept.java 3
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = "chrome";
9         String version = "121";
10
11        switch (browser.toLowerCase().trim()) { // chrome
12            case "chrome":
13                System.out.println("launch chrome");
14
15                switch (version) {
16                    case "121":
17                        System.out.println("launch chrome 121 version");
18                        break;
19                    case "122":
20
21                        break;
22                    case "123":|           I
23
24                        break;
25
26                    default:
27                        break;
28                }
29
30                break;
31            case "firefox":
32                System.out.println("launch firefox");
33        }
34    }
35}
```

Output-

Launch chrome.

Launch chrome 121 version.

paste switch18–

The screenshot shows a Java code editor window with the file 'switch18.java' open. The code demonstrates a nested switch statement. It starts with a package declaration, followed by a class definition named 'switch18'. The main method initializes a string 'browser' to 'testing' and an integer 'version' to 23434. It then enters a switch block based on the browser's lowercase name. Inside this, there is another switch block for the version number. The code includes several case statements and a default case, each printing a message to the console using System.out.println.

```
1 package com.day5;
2
3 public class switch18 {
4
5     public static void main(String[] args) {
6
7         //nested switch statement.
8
9         String browser = "      testing      ";
10        int version=23434;
11
12        switch (browser.toLowerCase().trim()) {
13            case "chrome":
14                System.out.println("open chrome");
15
16                switch (version) {
17                    case 1:
18                        System.out.println("version1");
19                        break;
20
21                    case 23434:
22                        System.out.println("version 23434");
23                        break;
24
25                    default:
26                        break;
27                }
28
29            case "safari":
30                System.out.println("open safari");
31        }
32    }
33}
```

```
--  
30     System.out.println("open safari");  
31  
32  
33  
34     case "ff":  
35         System.out.println("open ff");  
36  
37  
38  
39  
40     default:  
41         System.out.println("invalid case" + " " + browser);  
42  
43  
44     case "ie":  
45         System.out.println("open ie");  
46         break;  
47     }  
48  
49 }  
50 }  
51 //invalid case      testing  
52 //open ie  
53
```

Case cannot be nested, switch can. case is already in nested format one under other.

Any logic allowed inside switch case-



```
3 public class SwitchCaseConcept {
4
5     public static void main(String[] args) {
6
7         // cross browser logic
8         String browser = "chrome";
9         String version = "121";
10
11        switch (browser.toLowerCase().trim()) { // chrome
12            case "chrome":
13                System.out.println("launch chrome");
14
15            int i = 1;
16            System.out.println(++i);
17
18            break;
19            case "firefox":
20                System.out.println("launch firefox");
21                break;
22            case "edge":
23                System.out.println("launch edge");
24                break;
25            case "ie":
26                System.out.println("launch ie");
27                break;
28
29            default:
30                System.out.println("plz pass the right browser : " + browser);
31                break;
32
33            case "opera":
34                System.out.println("launch opera");
35                break;
36
37        }
38    }
39}
```

launch chrome

2

```
85      f
86
87
88  //use cases of switch case:
89  //1. cross browser logic
90  //2. cross OS logic
91  //3. month
92  //4. cross users/RBAC - user permissions
93  //5. run test cases in diff env: dev,qa,uat,stage,prod
94  //6. time zones
95  //7. Uber: cases: sedan, mini, suv, prime
96  //8. HR: user roles
97  //9. localization: En, Fr, Ar,
98  //10. category: Electronics, Fashion, MakeUp,
99
100
101
102 }
```